SAMSUNG

E-MANUAL

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Model_____ Serial No._____

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Viewing the e-Manual

The embedded e-Manual contains information about your TV's key features.

This TV has a built-in user guide. To read it, use one of the following methods:

- Open the **Support** menu (you can press **MORE** button on remocon to open Screen Menu and you can find Support.) and choose **e-Manual**.
- Press the **MORE** button on the Smart Touch Control to display control buttons on the screen. Flick the Touch Pad until **e-Manual** appears and select it.

Words in light blue refer to screen menu options and words in blue refer to remote control buttons.

Arrows(>) are used to indicate the menu path. (Example: Screen Menu > **Support** > **e-Manual**)

A printable version of this guide is also available at www.samsung.com/support.

Scrolling a Page

To scroll a page, use of one of the following methods:

<LED F6400 Series and above, PDP F5500 Series> By Smart Touch Control

- Press the ▲ or ▼ button on the scroll bar at the right edge of the screen.
- Drag or flick up or down the line on either the left or right edge of the touch pad.
- Place the focus on the ▲ or ▼ button at the right edge of the screen, drag or flick up or down on the touch pad.

<For LED F5300 - F6300, PDP F5200 Series> By Standard Remote Control

- Press the ▲ or ▼ button on the scroll bar at the right edge of the screen.
- Place the focus on the ▲ or ▼ button at the right edge of the screen, press the up or down arrow button on the remote.

Using the Top Icons

Use the **BACK**, **Forward** and **Opened pages** icons on the top left of the screen to navigate through pages. These icons are available when two or more pages are passed.

Returning to the Home Page

To return to the home page, press the **A** button or select ⌂ on the top right of the screen.

Searching the Index

Press the **B** button or select ? on the top right of the screen to display the index. Select a term to display the page containing the term.

This option is only available in English E-manual.

Searching Pages

Press the C button or select on the top of the screen to access the search screen. Enter a search phrase and select **Done**. Select an item from the search results list to navigate to the relevant page.

Closing the e-Manual

To close the e-Manual, press and hold the **RETURN** button or select at the upper-right corner of the screen.

Jumping to a Menu Item

To directly jump to the menu item that is described in the current section, select **Try Now**. Pressing the **E-MANUAL** button on standard remote control or e-Manual on Virtual Remote Panel opens the e-Manual and displays the related section.

This feature may not be available, depending on the menu.

Updating the e-Manual

Press the button to launch **Smart Hub** and select **Apps**, and then select **More Apps**. The e-Manual can be updated in the same way with an application update.

On the **More Apps** screen, select **Update Apps**. Select e-Manual from the list. The e-Manual starts updating to the latest version. However, **Update Apps** appears on the screen only when the update is required.

Aerial & External Device Connections

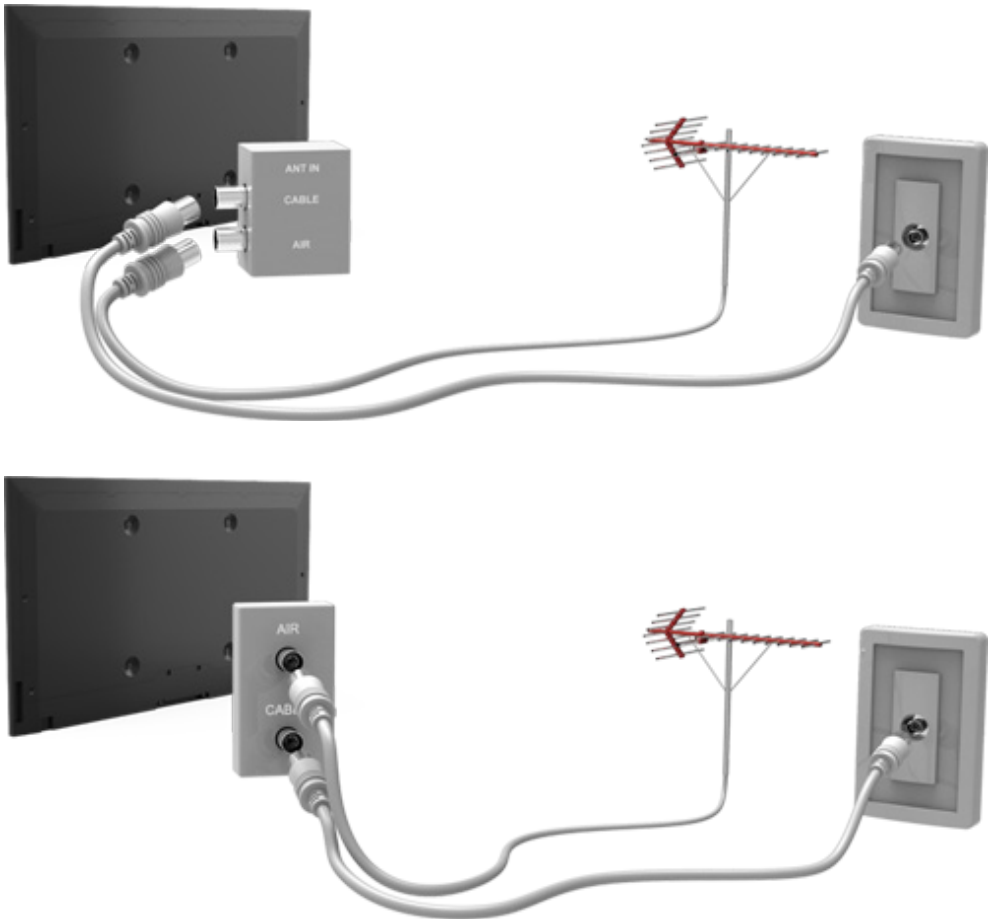
The number of connectors and their names and locations may vary depending on the model.

When connecting an external device, refer to the device's operating manual. The number of external device connectors and their names and locations may vary depending on the manufacturer.

Aerial Connection

Refer to the diagram and connect the aerial cable to the aerial input connector. Make sure that you do not bend the cable.

However, an aerial connection is not necessary if you are using a cable box or satellite receiver.



Video Device Connections

This SMART TV has a wide range of connectors for video input from video devices such as Blu-ray players, DVD players, camcorders and gaming consoles. Below is a list of featured connectors shown in descending order of picture quality.

- HDMI
- Component
- AV

Connect the video device to the TV via an HDMI connector for the best picture quality. If the device does not have an HDMI connector, try a component connector to get the next best possible picture quality.

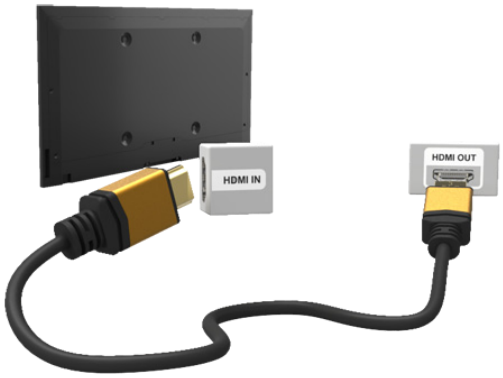
HDMI Connection

Refer to the diagram and connect the HDMI cable to the video device's HDMI output connector and the TV's HDMI input connector. One of the following HDMI cable types is recommended:

- High-Speed HDMI Cable
- High-Speed HDMI Cable with Ethernet

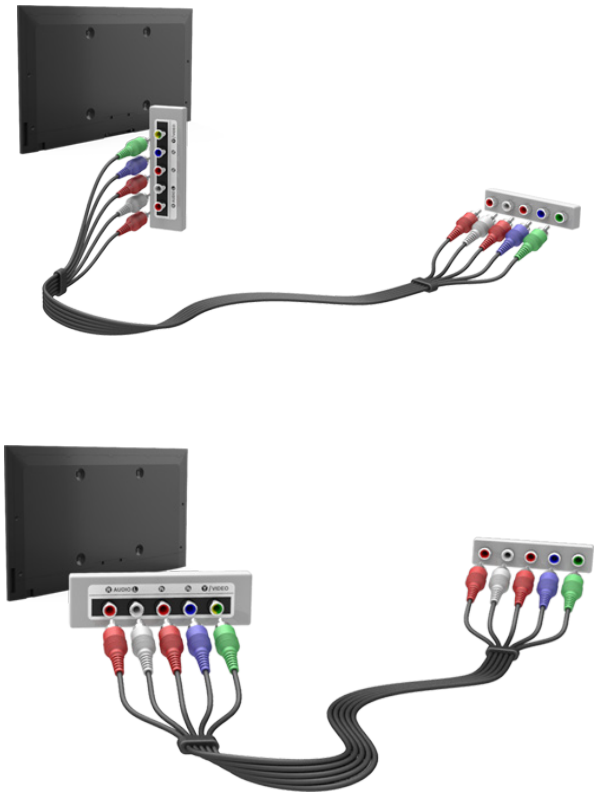
Use an HDMI cable with a thickness of 14 mm or less. Using a non-certified HDMI cable may result in a blank screen or a connection error.

- Some HDMI cables and devices may not be compatible with the TV due to different HDMI specifications.
- This TV does not support HDMI Ethernet Channel. Ethernet is a LAN (Local Area Network) built on coaxial cables standardized by the IEEE.
- The number of connectors and their names and locations may vary depending on the model.



Component Connection

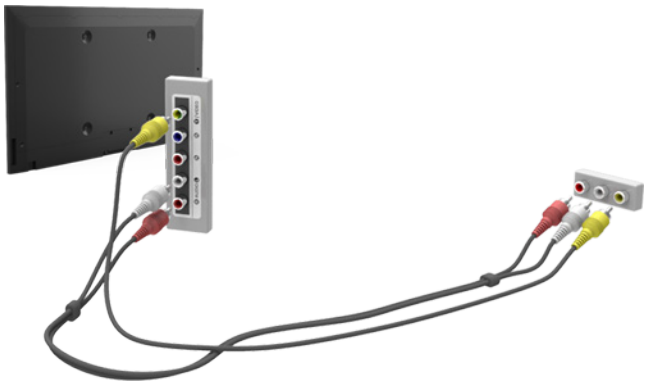
Refer to the diagram and connect the AV cable to the TV's component input connectors and the device's component output connectors. Make sure the cable colours match the connector colours.



AV Connection

Refer to the diagram and connect the AV cable to the TV's external input onnectors and the device's AV output connectors.

Connect the video cable to the Y connector.



Audio Device Connections

This SMART TV has a wide range of connectors for audio input from devices such as amplifiers, Blu-ray players and DVD players. For better audio quality, it is a good idea to use an AV receiver.

- Digital Audio (Optical)
- Audio Out (Not supported for PDP model)
- ARC (Audio Return Channel)

  (LED F5500 series and below not support)

Digital Audio (Optical) Connection

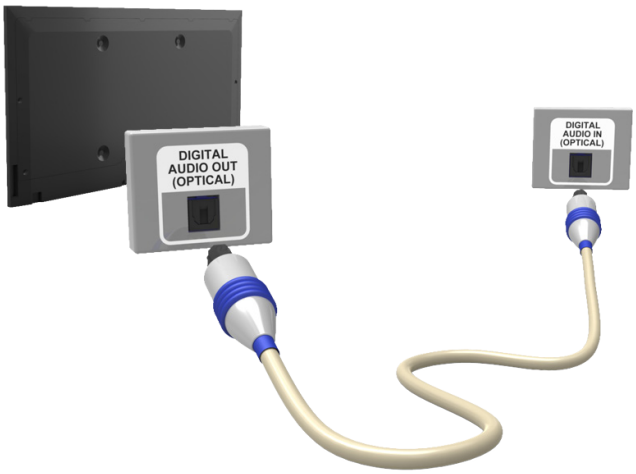
Refer to the diagram and connect the optical cable to the TV's digital audio output connector and the device's digital audio input connector.

Connecting the device using an optical cable does not automatically turn off the TV speakers. To turn off the TV speakers, open the **Speaker Select** (**Sound** > **Speaker Settings** > **Speaker Select**) menu, then set **External Speaker**.

Adjust volume using its remote control.

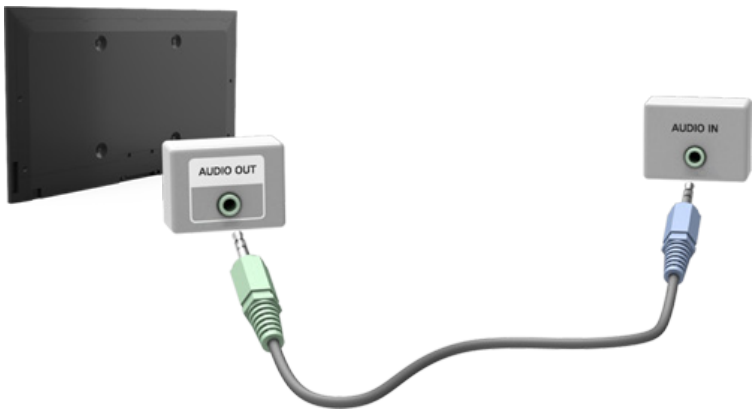
An unusual noise coming from the audio device while it is being used may indicate a problem with the audio device itself. If this is the case, ask for assistance from the audio device manufacturer.

5.1-channel audio for digital channels is only available with broadcasts that support 5.1-channel audio.



Audio Output Connection (Not supported for PDP model)

Refer to the diagram and connect the audio cable to the TV's audio output connector and the device's audio input connector.



ARC (Audio Return Channel)

(LED F5500 series and below not support)

This SMART TV supports 3D and ARC (Audio Return Channel) functions via an HDMI cable. ARC enables digital sound to be output using just an HDMI cable. However, ARC is only available through the HDMI (ARC) port and only when the TV is connected to an ARC-enabled AV receiver. Connect the HDMI cable to the TV's HDMI (ARC) connector and the device's HDMI output connector.

Computer Connection

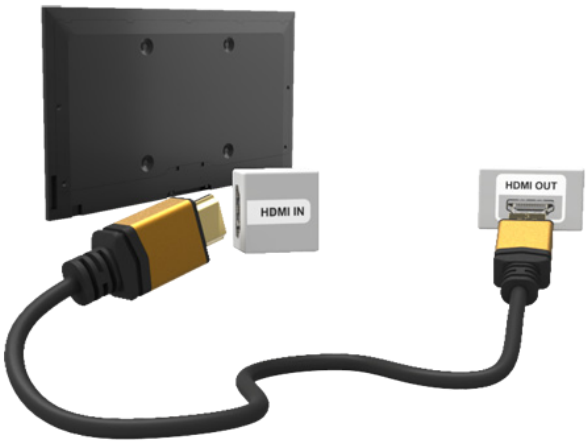
This SMART TV has the following computer connection ports:

- HDMI
- HDMI-to-DVI

For the highest picture quality, connect the computer to the HDMI/DVI port. Not all computers are HDMI-enabled. In this case, use an HDMI-to-DVI cable to connect the computer to the TV. Refer to the computer input signal reference table for information on the resolution settings supported by the TV.

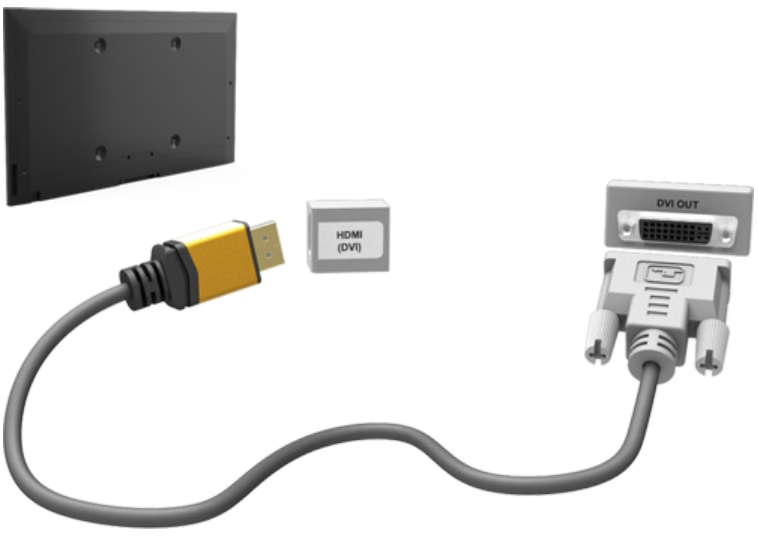
HDMI Connection

Refer to the diagram and connect the HDMI cable to the TV's HDMI input port and the computer's HDMI output port.



HDMI-to-DVI Connection

Refer to the diagram and connect the HDMI-to-DVI cable to the TV's HDMI (DVI) port and the computer's DVI output port. The HDMI-to-DVI connection is available through the HDMI (DVI) port only.



Switching Between Video Sources

Press the SOURCE button to switch between devices connected to the TV.

For example, to switch to a game console connected to the second HDMI connector, press SOURCE button. From the Source list, select HDMI2. The connector names may vary depending on the product.

Select TOOLS button from the Source screen to access the following options:

- Refresh

  Select this if a connected device does not appear in the list. If the list does not show the device after selecting Refresh, check the status of the TV-to-device connection.

- Edit Name

  You can edit name of devices connected to the TV to more easily identify external sources.

  With a computer connected to the TV's HDMI (DVI) port via an HDMI cable, for example, you can change Edit Name to PC.

  With a computer connected to the TV's HDMI (DVI) port via an HDMI-to-DVI cable, for example, you can change Edit Name to DVI PC.

  With an AV device connected to the TV's HDMI (DVI) port via an HDMI-to-DVI cable, for example, you can change Edit Name to DVI Devices.

- Information

  View detailed information about the connected devices.

- Disconnect USB Device

  Remove the USB device from the list safely. This function is only available when the USB device selected.

Universal Remote Setup

Use this to configure universal remote control settings. Using the universal remote control, users can control external devices connected to the TV, such as a settop box, Blu-ray player. For details, see "Universal Remote Setup".

Select Universal remote setup on the right top of the screen under the Source mode.

You can also enter it by Screen Menu > System > Device Manager > Universal Remote Setup

Programming

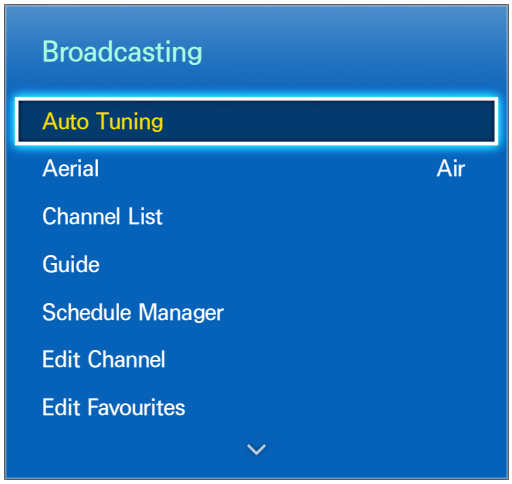
(The pictures may vary depending on the models)

Scan and index available channels.

You can also remove channels from the index, restore removed channels and designate favourites channels for a more convenient TV viewing experience. Programming is not necessary if you are connected to a cable or satellite receiver.

Auto Tuning

Screen Menu > **Broadcasting** > **Auto Tuning** Try Now



The pictures may vary depending on the models.

Automatically scans and indexes all channels received through the TV's aerial input connector.

1. To start, navigate to **Broadcasting** and select **Auto Tuning**.
2. Select **Start** when prompted with a message. This initiates the Auto Tuning function. The process can take up to 30 minutes to complete. If Starting the Auto Tuning function when there is an existing index of channels overwrites the previous index.

- **Auto Tuning**

  Scans for channels automatically and stores them in the TV's memory.

  - **Aerial** (**Air**/**Cable**):Select currently connected antenna.
  - **Channel Type** (**Digital & Analogue**/**Digital**/**Analogue**):Select the channel source to memorise.
  - **Search Mode**: Full/Network/Quick Only available when selecting Aerial-Cable and Channel Type-Both & Digital

  Search mode function may not be supported depending on the areas.

  When selecting **Cable**: Scan Analogue channels.

Aerial

Screen Menu > **Broadcasting** > **Aerial**

Before your television can memorize the available channels, you must select your TV's signal source, **Air** (using an antenna) or **Cable**. Select **Air** or **Cable**.

Remove Scrambled Channels

(May not be available, depending on your regions and country.)

Screen Menu > **Broadcasting** > **Channel Settings** > **Clear Scrambled Channel**

Remove scrambled channels(pay-per-view channels) from channel list. To remove pay-per-view channels, run this function.

Manual Tuning

Screen Menu > **Broadcasting** > **Channel Settings** > **Manual Tuning**

Scans for a channel manually and stores in the TV.

- **Digital Channel Tuning** : Scan for a digital channel.
- **Rescan**: You can press it to scan channel again.

The Bandwidth function may not be supported depending on the region.

1. Select the **New**.

   Set Channel, and frequency will be changed automatically at the same time.

2. Select the **Search**. When scanning has finished, a channel is updated in the channel list.

- **Analogue Channel Tuning** : Scans for a Analogue channel.

1. Select the **New**.
2. Set the **Programme**, **Colour System**, **Sound System**, **Channel** and **Search**.
3. Select the **Store**. When scanning has finished, a channel is updated in the channel list.

Channel mode

- **P** (Programme mode)

  When tuning is complete, the broadcasting stations in your area have been assigned to position numbers from P0 to P99. You can select a channel by entering the position number in this mode.

- **Channel**

  C (aerial channel mode) / **S** or **Z** (cable channel mode)

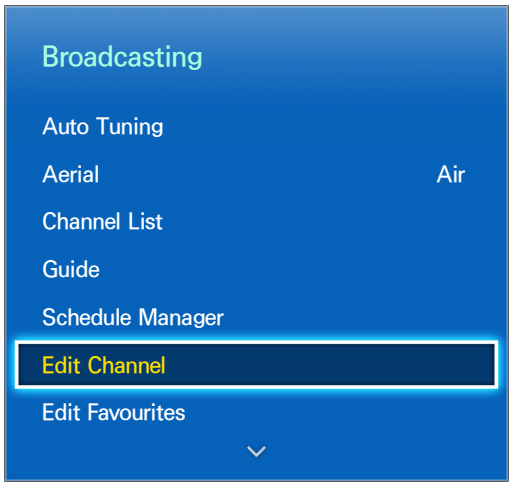
  These two modes allow you to select a channel by entering the assigned number for cable channel.

If a channel is locked using the Channel Lock function, the PIN input window appears, the default PIN is "0-0-0-0."

This function may not be supported depending on the region.

Channel Management

Screen Menu > Broadcasting > Edit Channel Try Now



The pictures may vary depending on the models.

Remove channels from the index, and rename Analogue channels. The Edit Channel screen icons indicate the following:

- A : An Analogue channel
- : A favourites channel
- : A locked channel

In the Edit Channel screen, select the Virtual Remote panel's or the regular remote's TOOLS button to access the following options:

- Sorting

  (Digital channels only)

  Change the list ordered by name or number.

- Aerial

  Select the desired signal source. However, the Aerial is available only when the TV has stored in both aerial channels and cable channels.

- Category

  The TV's channel index is divided into different categories such as All, TV, Analogue, Recently Viewed, Data/Other, and Most Viewed. Choose a category. (The categories may vary depending on the channels.)

- Edit Favourites

  Edit the channels as your favourites channels.

- Channel Info

  Check the information of the channel.

- Information

  Check the information of the broadcast.

Remove Channels

Screen Menu > **Broadcasting** > **Edit Channel**

Remove registered channels from the index. Removing channels appearing in the list clears the channels from the list only and does not remove them from the index.

1. From the screen, select the channels you wish to remove. Unselect channels by choosing them again.
2. Pressing C button : Delete the selected channels.

- A(Change Number) : You can change your channel number by pressing it on the remote control.
- B(Lock/Unlock) : Lock a channel so that the channel cannot be selected and viewed.
- C(Delete) : You can delete the channel you selected by pressing it on the remote control.
- D(Select All/Deselect All) : You can select or deselect all the channels.
- 0~9(Go To) : You can enter a channel number immediately using your remote control.
- ◇Page : Move to next or previous page.
- Tools : Show the Tools list.

Change Number

Change the number of the channels in edit channels List.

1. Press A button to bring up the edit channels list and select the channel you wish to change the number of the channels.
2. Select the number you wish change. Select ↵ or press touchpad to finish.

Channel Lock

You can lock channels if you don't want your children to view. The default PIN is "0-0-0-0".

Lock is only available with **Channel Lock** set to **On**. Navigate to **Channel Lock** (**Broadcasting** > **Channel Lock**) and set **On**.

Navigate to the **Edit Channel** screen, select the channels you wish to lock, press B button, and then enter the password. This locks the selected channels.

Channel Unlock

Unlock locked channels. Navigate to the Edit Channels screen, select the locked channels you wish to unlock, press B button and then enter the password. This unlocks the selected channels.

Rename Analogue Channels

From the screen, select an analogue channel, and then select the virtual remote panel's or the regular remote's TOOLS button. The list screen appears. Select **Rename channel** from the list.

You can now rename the selected channel. The new name can be up to 5 characters long.

Audio Options

Screen Menu > Broadcasting > Audio Options Try Now

- Audio Language Try Now

  (Digital channels only)

  – Audio Language

  Change the default value for audio languages.

  – Primary audio

    Set the primary audio language.

  – Secondary audio

    Set the secondary audio language.

  The available language may differ depending on the broadcast.

- Audio Format Try Now

  (Digital channels only)

  When sound is emitted from both the main speaker and the audio receiver, a sound echo may occur due to the decoding speed difference between the main speaker and the audio receiver. In this case, use the TV Speaker function.

  Audio Format option may differ depending on the broadcast. 5.1ch Dolby digital sound is only available when connecting an external speaker through an optical cable.

- Audio Description Try Now

  (Not available in all locations) (Digital channels only)

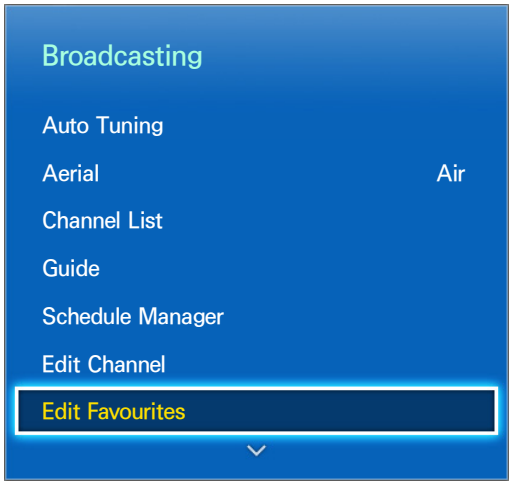
  This function handles the Audio Stream for the AD (Audio Description) which is sent along with the Main audio from the broadcaster.

  Audio Description: Turn the audio description function on or off.

  Volume: Adjust the audio description volume.

Favourites Channels

Screen Menu > Broadcasting > Edit Favourites Try Now



The displayed image may differ depending on the model.

You can designate frequently watched channels as favourites. The channels assigned as a favorite are displayed with the ♥ symbol on the Edit Channel and channel list screens. You can create up to 5 favourites channel lists. You can also rename and edit favourites channel lists.

From the Edit Favourites screen, select the Virtual Remote panel's or the regular remote's TOOLS button to access the following options:

Add Channels

Add a channel to a favourites channels list.

1. Press A button to bring up the channel list containing the channels you wish to add and then select the channels.
2. Press B button to bring up a favourites channels list and then C button to add the selected channels.

Remove Channels

Remove channels from a favourites channels list.

1. Press B button to bring up a favourites channels list and then select the channels you wish to remove.
2. Press C button to remove the channels from the list.

Rearrange the Favourites Channels List

Rearrange the order of the channels in a Favourites Channels List.

1. Press B button to bring up the favourites channels list and select the channel you wish to move.
2. Press A button to rearrange the order of the selected channel. Select **Done** or press the touch pad to finish.

There should be more than two channels to be rearranged.

Rename a Favourites Channel List

Rename an existing favourites channels list.

1. Choose the **Favourites List**, select the Virtual Remote panel's or the regular remote's **TOOLS** button to display the list. Select **Rename Favourites** from the list.
2. Rename the list in the popup window. The new name can be up to 20 characters long.

Copy a Favourites Channels List

Copy channels from one favourites channels list to another.

1. Press B button to bring up a Favourites Channels List and select the channels you wish to copy.
2. Select the Virtual Remote panel's or the regular remote's **TOOLS** button to display the list. Select **Copy to Favourites** from the list, and then select the Favourites Channels List(s) you wish to copy to. This copies over the channels to the selected Favourites Channels List(s).

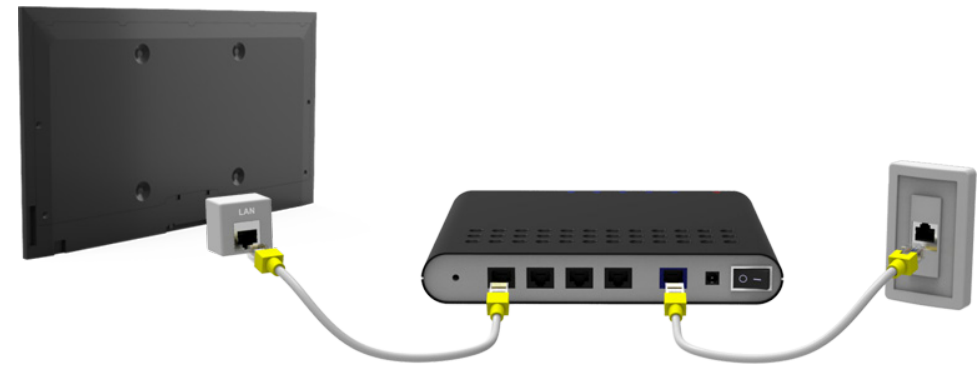
Networking

Connecting the SMART TV to a network gives you access to online services such as the Smart Hub as well as software updates.

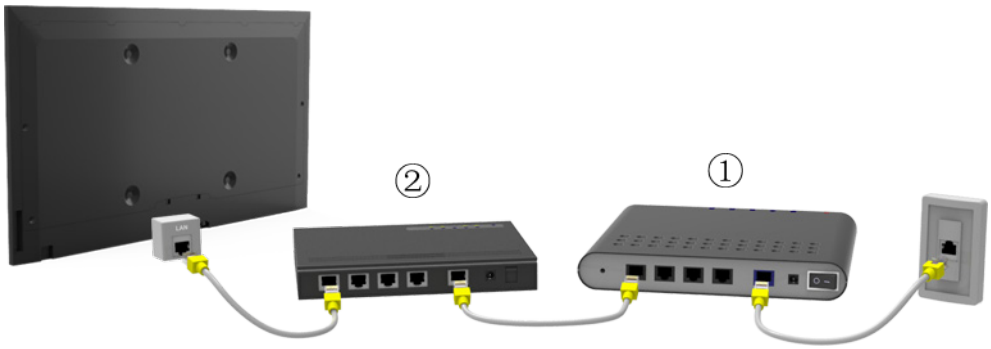
Wired Network

There are three ways to connect the TV to a Local Area Network (LAN).

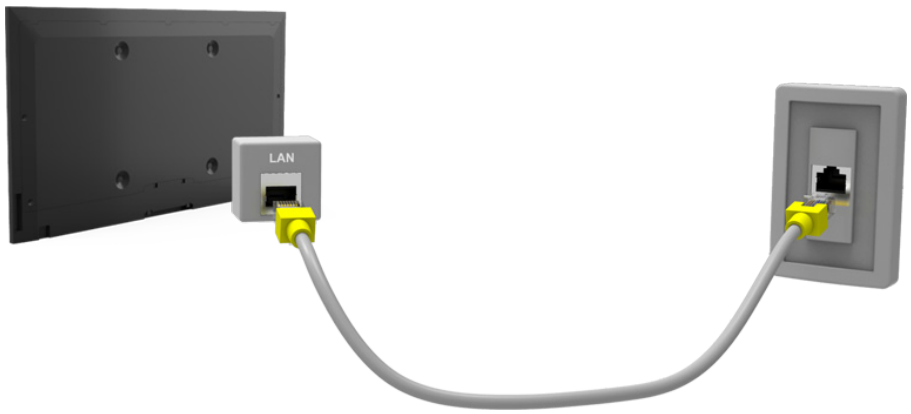
- External Modem



- ① External Modem + ② IP Router



- Wall-mounted LAN Outlet



Dynamic versus Static IP Addresses

If the network requires a dynamic IP address, use an ADSL modem or router that supports the Dynamic Host Configuration Protocol (DHCP). Modems and routers that support DHCP automatically provide the IP address, subnet mask, gateway and DNS values the TV needs to access the Internet, so they do not have to be entered manually. Most home networks use a dynamic IP address.

If the network requires a static IP address, enter the IP address, subnet mask, gateway, and DNS values manually when setting up the network connection. To get the IP address, subnet mask, gateway and DNS values, contact your Internet Service Provider (ISP).

If the network requires a static IP address, use an ADSL modem that supports DHCP. ADSL modems that support DHCP also allow static IP addresses.

Wireless Network

Connect the TV to the Internet using a standard router or modem.

LED F5300 series

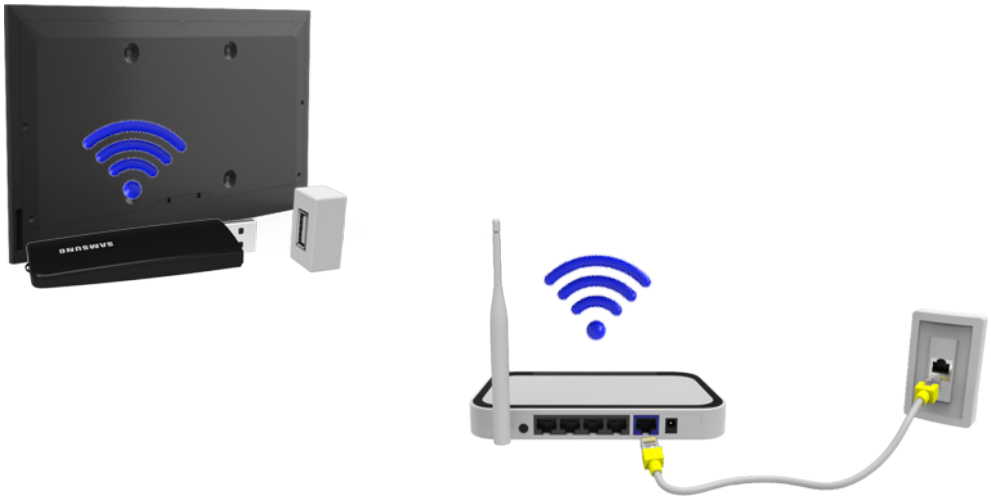
- Samsung's Wireless LAN adapter supports the IEEE 802.11a/b/g and n communication protocols. Samsung recommends using IEEE 802.11n. When you play video over a network connection, the video may not play smoothly.
- To use a wireless network, the TV must be connected to a wireless router or modem. If the wireless router supports DHCP, the TV can use a DHCP or static IP address to connect to the wireless network.
- Select a channel that is not currently in use for the wireless router. If the channel set for the wireless router is currently being used by another device, the result is usually interference and/or a communications failure.
- Most wireless networks have an optional security system. To enable a wireless network's security system, you need to create a security key using characters and numbers. This security key is then needed to connect to the wireless network.

Wireless Network Precautions

- This SMART TV supports the IEEE 802.11a/b/g/n communication protocols. Samsung recommends using IEEE 802.11n. Otherwise when you play video over a network connection, the video may not play smoothly.
- To use a wireless network, the TV must be connected to a wireless router or modem. If the wireless router supports DHCP, the TV can use a DHCP or static IP address to connect to the wireless network.
- Select a channel that is not currently in use for the wireless router. If the channel set for the wireless router is currently being used by another device, the result is usually interference or a communications failure.
- Most wireless networks have an optional security system. To enable a wireless network's security system, you need to create a security key using characters and numbers. This security key is then needed to connect to the wireless network.

LED F5300 series

Insert the Samsung wireless LAN adapter (WIS09ABGNX, WIS12ABGNX) into one of the TV's USB ports, referring to the illustration. Without this connection, the TV cannot connect to the Internet wireless.



Using the wireless LAN adapter may cause image retention or radio interference on some TV channels. In those cases, use one of the following methods.

- Use a vertical-type wireless LAN adapter.
- Connect the wireless LAN adapter to a USB extension cable, and insert the cable's USB plug into one of the TV's USB ports. Install the wireless LAN adapter on the top of the TV's back using an adhesive tape.

Network Security Protocols

The TV only supports the following wireless network security protocols and is unable to connect to non-certified wireless routers:

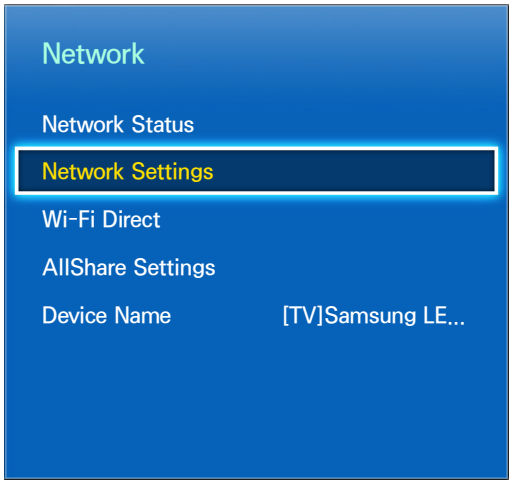
- Authentication Modes: WEP, WPAPSK, WPA2PSK
- Encryption Types: WEP, TKIP, AES

If the wireless router has been set to Pure High-throughput (Greenfield) 802.11n mode and the Encryption Type to WEP or TKIP, Samsung SMART TVs will not support the connection in compliance with the new Wi-Fi certification specifications.

If the wireless router supports WPS (Wi-Fi Protected Setup), it is possible to connect to the network using PBC (Push Button Configuration) or a PIN (Personal Identification Number). WPS automatically configures the SSID and WPA key settings.

Wired Network Setup

Screen Menu > Network > Network Settings Try Now



The pictures may vary depending on the models.

Automatic Wired Network Setup

The TV's wired network connection is automatically configured when it is connected to a network that supports DHCP.

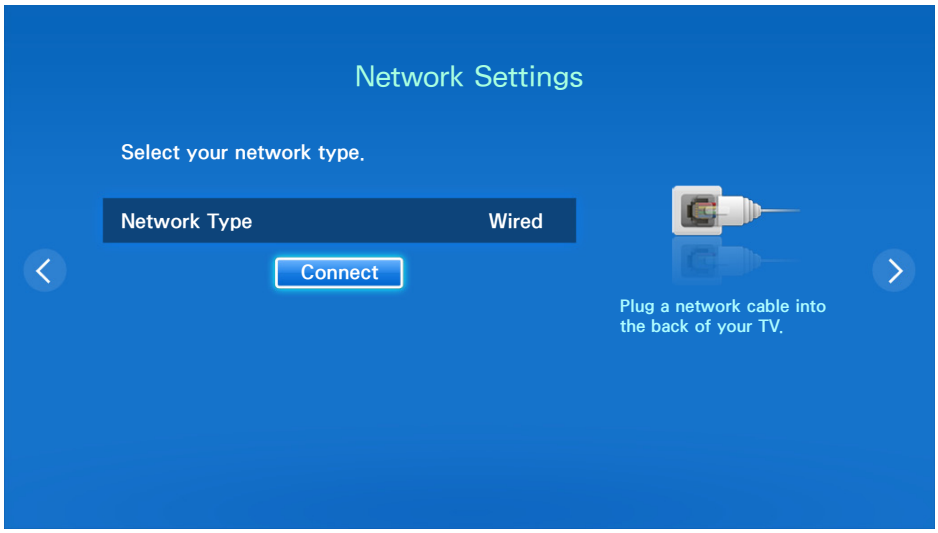
1. Set Network Type to Wired and then select Connect.
2. The TV attempts to connect to the network. A confirmation message is then shown once a connection is established. Select OK to proceed. If the attempt fails, try again or connect manually.

Manual Wired Network Setup

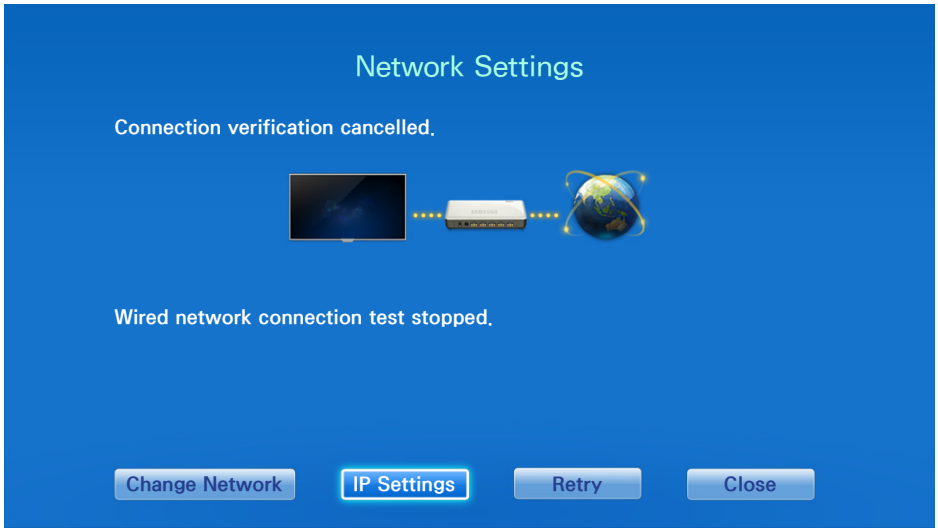
(The pictures may vary depending on the models)

If the network requires a static IP address, enter the IP address, subnet mask, gateway and DNS values to connect to the network manually. To get the IP address, subnet mask, gateway and DNS values, contact your Internet Service Provider (ISP). Refer to the Dynamic versus Static IP Addresses for more information.

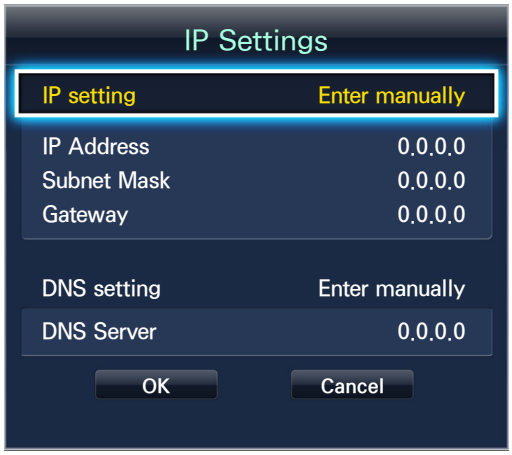
1. Set **Network Type** to **Wired** and then select **Connect**.



2. Select **Stop** when the TV attempts to connect to the network. Once the network connection has been interrupted, select **IP Settings**.



3. From the **IP Settings** screen, set **IP setting** to **Enter manually**, enter **IP Address**, **Subnet Mask**, **Gateway**, and the **DNS Server** values, and then select **OK**.



4. The TV attempts to connect to the network again using the specified settings. A confirmation message is then shown once a connection is established. Select **OK** to proceed.

Failed Wired Connection

No network cable found

Make sure the network cable is plugged in. If it is connected, make sure the router is turned on. If it is on, try turning if off and on again.

IP auto setting failed

Perform the following or set the IP address manually from **IP Settings**.

1. Ensure that the DHCP server is enabled on the router and reset the router.
2. If this does not work, contact your Internet Service Provider for more information.

Unable to connect to the network

Check the following:

1. Check the **IP Settings** settings.
2. Ensure that the DHCP server is enabled on the router and unplug and then plug the router back in.
3. If this does not work, contact your Internet Service Provider for more information.

Connected to a local network, but not to the Internet

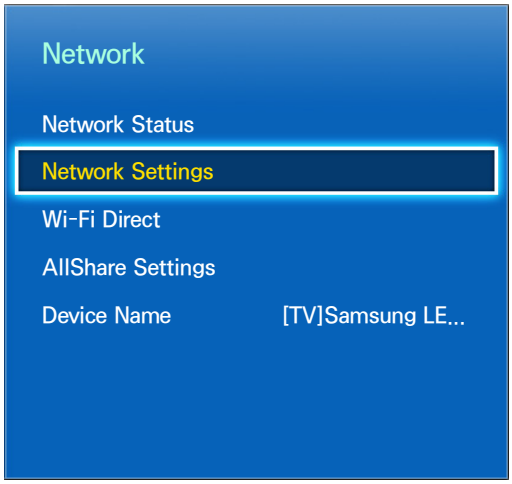
1. Make sure that the Internet LAN cable is connected to the router's external LAN port.
2. Check the DNS settings under **IP Settings**.
3. If the problem persists, contact your Internet Service Provider.

Network setup complete, but unable to connect to the Internet

If the problem persists, contact your Internet Service Provider.

Wireless Network Setup

Screen Menu > Network > Network Settings



The pictures may vary depending on the models.

Automatic Wireless Network Setup

Connect the TV to the Internet via a wireless router. Check the wireless router's SSID and security key settings before attempting to connect. The security key can be found on the wireless router's configuration screen.

1. Setting Network Type to Wireless automatically displays a list of available wireless networks.
2. Select the network (SSID) you wish to connect to. If the desired wireless router doesn't appear in the list, select Add Network and enter the network's SSID manually.
3. Enter the security key and select Done. If the selected network is not security-enabled, the TV will attempt a connection right away.
4. The TV attempts to connect to the network. A confirmation message is then shown once a connection is established. Select OK to proceed. If the attempt fails, try again or connect manually.

Manual Wireless Network Setup

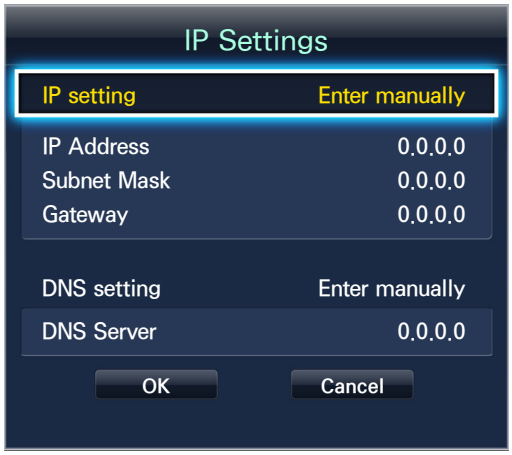
(The pictures may vary depending on the models)

If the network requires a static IP address, enter the IP address, subnet mask, gateway and DNS values to connect to the network manually. To get the IP address, subnet mask, gateway and DNS values, contact your Internet Service Provider (ISP). Refer to the Dynamic versus Static IP Addresses for more information.

1. Setting **Network Type** to **Wireless** automatically displays a list of available wireless networks.

2. Select the network (SSID) you wish to connect to. If the desired wireless router doesn't appear in the list, select **Add Network** and enter the network's SSID manually.
3. Enter the security key and select **Done**. If the selected network is not security-enabled, the TV will attempt a connection right away.
4. Select **Stop** when the TV attempts to connect to the network. Once the network connection has been interrupted, select **IP Settings**.

5. From the **IP Settings** screen, set **IP setting** to **Enter manually**, enter **IP Address**, **Subnet Mask**, **Gateway**, and the **DNS Server** values, and then select **OK**.



6. The TV attempts to connect to the network again using the specified settings. A confirmation message is then shown once a connection is established. Select **OK** to proceed.

Using the WPS Button

If the router has a WPS push button, you can use it to connect the TV to the router automatically. WPS automatically configures the SSID and WPA key settings.

1. Setting **Network Type** to **Wireless** automatically displays a list of available wireless networks.
2. Select **WPS(PBC)** and then press the router's WPS button within two minutes.
3. The TV automatically acquires the SSID and security key settings and connects to the network. A confirmation message is then shown once a connection is established. Select **OK** to proceed.

Failed Wireless Connection

Wireless network connection failed, or no wireless router selected

Go to **Network Settings** and select the correct router.

Unable to connect to a wireless router

Check the following:

1. Check that the router is turned on, and if it is, turn it off and on again.
2. Enter the correct security key if required.

IP auto setting failed

Perform the following or set the IP address manually from **IP Settings**.

1. Make sure that the DHCP server is enabled on the router and unplug and plug the router back in.
2. Enter the correct security key if required.
3. If this does not work, contact your Internet Service Provider for more information.

Unable to connect to the network

Check the following:

1. Check the **IP Settings** settings.
2. Enter the correct security key if required.
3. If this does not work, contact your Internet Service Provider for more information.

Connected to a local network, but not to the Internet

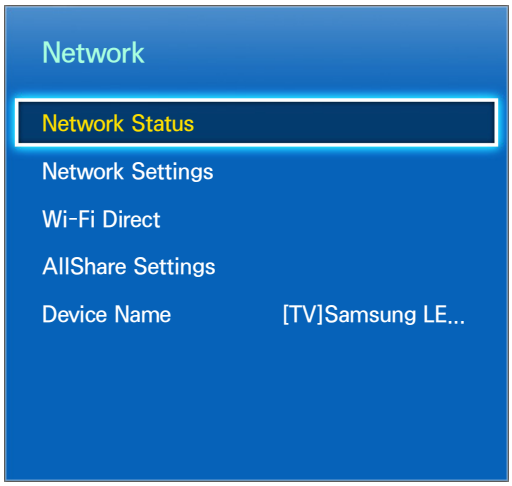
1. Make sure that the Internet LAN cable is connected to the router's external LAN port.
2. Check the DNS settings under **IP Settings**.
3. If the problem persists, contact your Internet Service Provider.

Network setup complete, but unable to connect to the Internet

If the problem persists, contact your Internet Service Provider.

Checking the Network Status

Screen Menu > **Network** > **Network Status** Try Now



The pictures may vary depending on the models.

View the current network and Internet status.

Wi-Fi Direct

Screen Menu > **Network** > **Wi-Fi Direct** Try Now

Connect a mobile device that supports Wi-Fi Direct to the TV without using a wireless router.

1. Enable Wi-Fi Direct on the mobile device and then launch **Wi-Fi Direct** The TV automatically scans for and displays a list of available devices. The TV's name also appears on the mobile device.
2. Select the device from the list to initiate a connection. If a connection request is made by the TV, a permission message appears on the mobile device and vice versa. Accept the request to connect the mobile device to the TV.

AllShare Settings

Screen Menu > **Network** > **AllShare Settings**

This TV can play media files from computers or other DLNA-enabled devices connected to the TV via a network. For details, see "Using Networked External Storage Devices". In addition, This TV can be used as a display for mobile devices, including smartphones and tablets. For details, see "Screen Mirroring".

Rename the TV

Screen Menu > **Network** > **Device Name** Try Now

Assign a unique name for your TV. The assigned name appears on the external devices connected to the TV via the network.

Using the Smart Touch Control

(For PDP F5500 Series, LED F6400 and above series)

The Smart Touch Control makes it easier and more convenient to use the TV. For example, you can use the remote control's built-in touchpad to move the focus and make selections as you would on a computer using a mouse. In addition, you can use the virtual remote panel displayed on the screen to change channels, play media files, and access favourites.

Inserting the Batteries (AAA X 2)

1. Slightly lift the battery cover by pulling the strap or using a plastic card (e.g. a credit card). Next, pull on the cover's notch with a fingernail to remove the cover completely.
2. Insert 2 AAA batteries, making sure to align the positive and negative ends correctly.
3. Align the battery cover with the back of the remote control and press down along the edges until it is cleanly attached to the remote control.

Connecting to the TV

(The pictures may vary depending on the models)

In order to operate the TV using a Smart Touch Control, you must first pair it to the TV via Bluetooth. However, the Smart Touch Control is only available for the paired Samsung TV.

1. When the TV is off, point the Smart Touch Control at the remote control receiver of the TV and press the TV button for the first pairing. Only this buttons sends an IR signal. The remote control receiver's location may vary depending on the model.
2. A Bluetooth icon will appear at the bottom left of the screen as shown below. The TV will then attempt to connect to the Smart Touch Control automatically.

<Attempting to connect and completion icons>

Reconnecting the Smart Touch Control

If you need to reestablish the connection between the TV and the Smart Touch Control, press the pairing button at the back of the Smart Touch Control.

<The Smart Touch Control pairing button>

The pairing button can be accessed by removing the Smart Touch Control's battery cover. Pressing the pairing button automatically reestablishes the connection between the control and the TV.

Low Battery Power Warning

If the battery becomes and blanks low while using the Smart Touch control, the following alarm window appears at the bottom left of the screen. Use alkaline batteries for longer usage.

<Low Battery Power Warning indicator>

Buttons and Descriptions

The product colour and shape may vary depending on the model.

Buttons	Descriptions
TV	Turn the TV on/off.
SOURCE	Change the source.
STB	Turn on and off the satellite or cable set-top box connected to the TV. For this, the Smart Touch Control must be configured as a universal remote control.
+ ◢ −	Adjusts the volume.
VOICE	Run Voice Recognition. To speak a voice command, press and hold the VOICE button and say a voice command.
MUTE	Turn the TV sound on/off.
⌃⌄ P	Change the channel.
MORE	Display the virtual remote panel on the screen. The the virtual remote panel consists of a number panel, a colour and playback control panel, and a quick access panel. Use the touchpad to select numbers and buttons.
Touch pad	Drag your finger on the touchpad as you would on the touchpad of a laptop to move the focus displayed on the screen. To select item, press the touchpad.
A, B, C, D	The colour buttons work differently, depending on the function that the TV is currently performing.
RETURN / EXIT	Return to the previous menu. Press and hold to exit the current performing back to the TV screen.
SMART HUB	Launch Smart Hub. While an application is running, pressing the button terminates the application.
GUIDE	View each digital channel's programming schedule, including showtimes. In addition, set a Schedule Viewing or Schedule Recording to press the touchpad on the programme entry scheduled to air later.
HISTORY/SEARCH	Realize the History and Search function.

Special Functions

Press and hold the following Smart Touch Control buttons to access various special functions.

Buttons	Descriptions
Touch pad	Press and hold the touchpad while watching TV to display CH List on the screen. In addition, you can press and hold the touchpad for 2 seconds or more while an application is running to access the application's hidden features. (Not available with all applications.)
RETURN / EXIT	Press and hold this button to quit the current process or app.
MORE	Press and hold the touchpad to select a desired function (e.g. MENU, TOOLS, INFO, etc.) easily.

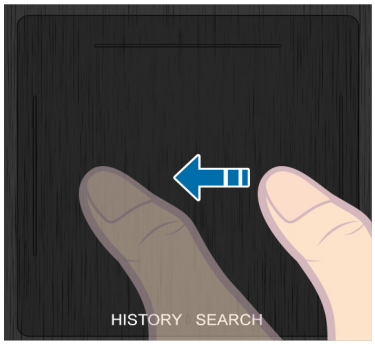
Using the touchpad

Use the touchpad to perform various commands. Navigate to **Tutorial** (**System** > **Device Manager** > **Smart Touch Control Settings** > **Tutorial**) to view an on-screen guide to using the Smart Touch Control. Try Now

(For PDP F5500 Series, LED F6400 and above series)

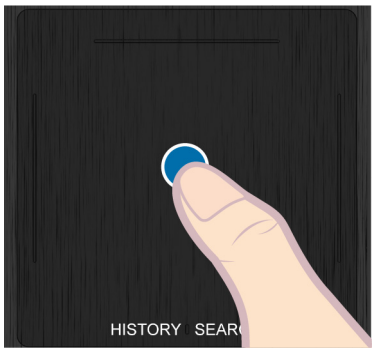
Drag

Drag on the touchpad in the desired direction. Move the focus or the pointer in the direction the finger is dragging.



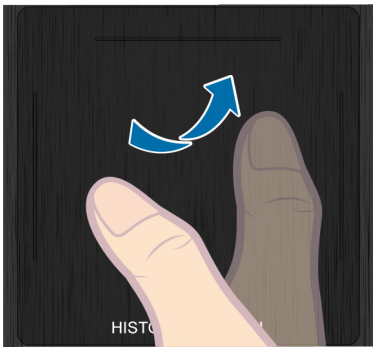
Press

Press the touch pad. This selects the focused item.



Flicking

Flick on the touchpad in the desired direction. This moves the focus or scrolls the screen based on the direction and speed of the flick.

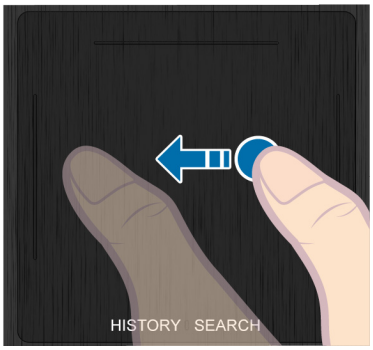


Pressing and Holding

Press and hold the touchpad while watching TV to display **CH List** on the screen. In addition, you can press and hold the touchpad for 2 seconds or more while an application is running to access the application's hidden features. (Not available with all applications.)

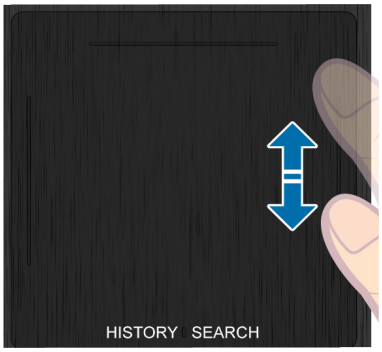
Pressing and Dragging

Press the touchpad, drag and release. This moves the selected web item in a webpage or your current location on a map.



Scrolling Up/Down

Scroll up/down the line on either the left or right edge of the touchpad. This scrolls a webpage or a list up/down. This scrolling feature easily accommodates both right-handed and left-handed users.

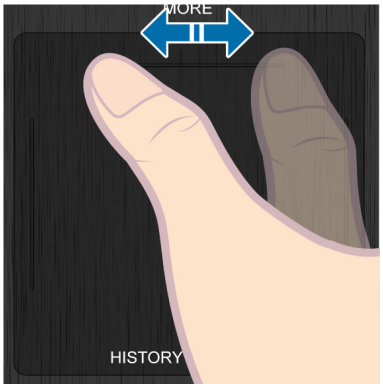


Press and hold the touchpad

To activate **Channel List**, Press and hold the touchpad.

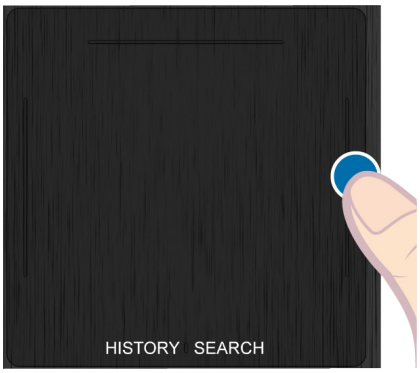
Scrolling Left/Right

Move your finger horizontally on the projected line at the top of the touchpad. You can horizontally scroll a horizontal list or the Smart Hub panel.



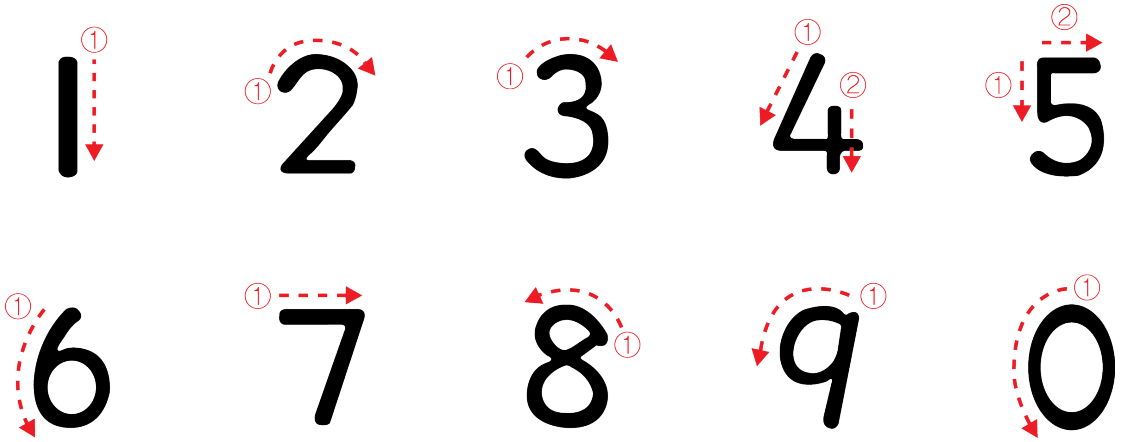
Changing Channels by Entering Numbers

While watching TV, tap on the protruding line on the left or right edge of the touch pad to bring up the numerical input window on the screen. Use your finger to enter the number for the channel you want to watch. The recognised number is displayed on the screen and the TV switches to the corresponding channel. However, the number you have entered may not be recognised properly by the TV. Refer to the guide below to ensure that your numerical entries are recognised accurately.



Numerical Input Guide

Refer to the diagrams below when entering numerical values. The TV may not recognise your entries if you do not follow the sequences shown below.



Adjusting the Touchpad

Screen Menu > System > Device Manager > Smart Touch Control Settings > Touch Sensitivity Try Now

Users can adjust the sensitivity of the Smart Touch Control's touch pad. Set Touch Sensitivity to adjust sensitivity and make it more convenient to use.

Show Status and Notification Banner

Press the MORE button on the Smart Touch Control and then select STATUS on the virtual control panel to display the status and notification banner at the top of the screen. Refer to "Status and Notification" banner for more information.

History

This displays an interactive list of recently accessed channels, media content and applications.

Deleting History Data

Screen Menu > Smart Features > Clear viewing history > History / Photos, Videos & Music

You can delete the history information about recently viewed channels, content and applications.

Search

Press the HISTORY/SEARCH button. The list appears at the bottom of the screen. Press the HISTORY/SEARCH button again. Enter search criteria to search not only many apps and their contents on the TV but also the Web.

May not be available, depending on your regions and country.

Using the Virtual Remote Control

Press MORE button to display the virtual remote panel on the screen. The virtual remote panel consists of a number panel, a playback control panel, and a quick access panel. Use the touchpad to select numbers and other functions.

Changing the Virtual Remote Control Panel

Choose the number panel, playback control panel, or quick access panel as the panel to be shown on the screen.

Use the touchpad to keep moving the focus left or right. The panel changes when the focus is moved beyond the leftmost or rightmost edge.

Change a position of the Virtual Remote Panel

Press the MORE button on the Smart Touch Control. The virtual remote panel appears on the screen. press and hold the touch pad for one second. Users can change a position of the virtual remote panel of the screen.

Using the Number Panel

Use the number panel to enter numbers on a keypad screen or webpage or to change the channel while watching TV. Changing the channel using the number pad leaves a record, allowing you to easily return to previous channels.

Using the Playback Control Panel

Use the playback control panel to pause, rewind, fast forward, skip to the next file, and much more while enjoying media content.

Using the Quick Access Panel

Quickly access the INFO, MENU and e-Manual buttons and more. However, the availability of buttons may vary depending on the operating mode of the Smart Touch Control (with the TV only, as a universal remote, etc.).

Adjusting the virtual remote control

Screen Menu > System > Device Manager > Smart Touch Control Settings > Onscreen Remote Size

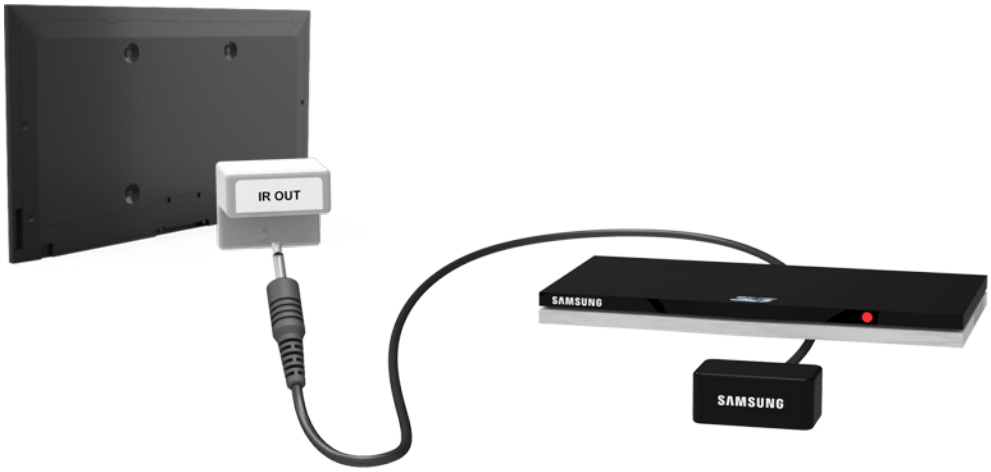
You can resize the virtual remote control. If the virtual remote control buttons are too small, enlarge the remote control window before using the virtual remote control.

Universal Remote Setup

This TV has a universal remote control feature that lets you control cable boxes, Blu-ray players, home theatres, and other third-party external devices connected to the TV using the TV's remote control. You can also use the Anynet+ (HDMI-CEC) function to operate Samsung external devices with your TV's remote control without any additional setup. For more information, refer to "Anynet+ (HDMI-CEC)".

Some external devices may not be recognized, depending on the brand and model.

Connecting the IR EXTENDER CABLE



Keep a distance of 5 cm at least between the IR EXTENDER CABLE and the external device, as the illustration shows. Face the IR EXTENDER CABLE toward the external device's remote control signal receiver. Note that it should be no obstacle between IR Extender and external device. The presence of an obstacle will interfere with the transmission of the remote control signal.

The colour and design of the IR extension cable may vary depending on the model.

Add the External Device

1. Connect TV and devices with IR Extender Cable.
2. Select **Universal remote setup** on the right top of the screen under the **Source** mode. This initiates the universal remote setup process. Then the remote you use will be available to support this function.
3. Follow the on-screen instructions and set up the universal remote feature.

Using the Universal Remote Control

By configuring the universal remote control feature for a connector to which an external device is already connected, you can use the Smart Touch Control as a universal remote control simply by sending the input signals to the corresponding connector.

Registered External Device Management

From the **Universal Remote Setup** screen, select a registered external device. The following options are available:

- **Source Setup**

  Change the TV's input connector that the external device is connected to.

- **Synced Power Off**

  Configure the external device to turn off when the TV is turned off.

- **Rename**

  Rename the registered external device (up to 100 characters long).

- **Delete**

  Remove the registered external device.

Entering Text using the Onscreen Keypad

An onscreen keypad appears when you need to enter text (entering the network password, logging into your Samsung account, etc.), allowing you to enter text using your remote control. The following types of onscreen keypads are available:

- Numeric Keypad

  (Depending on the models)

- QWERTY Keypad

Entering Text using the QWERTY Keypad

Use the QWERTY keypad as you use a normal keyboard. Simply select the letters you want to enter them.

Additional Features

Select the ⚙ icon from the keypad to access the following features:

- **Language**

  Switch Chinese or English.

  ✎ May not be available, depending on your regions and country.

- **Recommended Text**

  Enable/disable the Recommended Text feature. Enabling the Recommended Text feature displays word recommendations based on the entered characters. To enter the word "Internet", for example, all you have to do is enter "In" and select the word "Internet" from the list of recommended words.

  ✎ Only available with Language switching to English.

- **Text Prediction**

  Enable/disable the Text Prediction feature. Enabling the Text Prediction feature eliminates the need to find and select individual character keys. However, this feature is limited to words that have previously been added to the dictionary.

SMART Interaction

This TV features SMART Interaction, which recognises a user's voice, actions, and face to enable TV operations without the use of a remote control. The motion control and facial recognition features require a separately-sold TV camera installed on the TV. Make sure that the TV is connected to the Internet when installing the TV camera so that it can download the software required for motion control. SMART Interaction makes it possible to configure settings and access features with ease. It takes approximately 15 seconds for voice and motion recognition to come online after turning on the TV.

- Motion Control and Facial Recognition may not be available in all regions and territories.

Camera is not available for PDP models.

For LED F5300-F6300 and PDP F5200, Voice Recognition is not supported.

- Certain Samsung Smart Hub features may not be available without express consent to the collection and use of personal information.

⚠ **When connecting the TV camera to 2013 Samsung TV models, make sure to connect it to the specified USB port of the TV. Other USB ports are not supported for this purpose.**

Precautions

Face Recognition

This product saves thumbnail images of users' faces for use during the Face Login. Logging into the Smart Hub via face recognition may be less secure than logging in using an ID and password.

TV Camera Use

Under some circumstances and under certain legal conditions, the use/misuse of the TV camera may result in legal liability. There may be obligations under local privacy laws regarding the protection of individuals concerning personal data and on the free movement of such data, and possibly other laws including criminal laws, regulating camera surveillance both in the workplace and elsewhere.

By using the TV camera, users agree that it will not be used (i) in locations where cameras are generally prohibited (such as bathrooms, locker rooms or changing rooms), (ii) in any manner that will result in an invasion of a person's privacy or (iii) in violation of any applicable laws, regulations or statutes.

If you are using a camera, first check the back for a sticker.

Remove the sticker cover before adjusting the TV camera angle.

When you are no longer using the camera, rotate the lens downward and secure it in place. This prevents any inadvertent or unintentional camera operation.

Motion Control

Motion Control works by using the camera, so the user must be within the camera's recognition range. The camera's recognition range varies depending on the ambient light level and other factors. Run **Motion Control Environment Test** before using Motion Control to determine the camera's recognition range. User may experience physical fatigue when using Motion Control for extended periods.

Voice Recognition

For the best Voice Recognition experience, we recommend that you use a Smart Touch Control.

Voice Recognition is not available in all languages, dialects or regions. The performance varies depending on the language chosen, voice volume and ambient noise levels in the surrounding area.

Voice Text Input requires the user's agreement with any third-party app's voice privacy policy and to provide Samsung with the user's MAC address and other private information.

Voice Text Input lets users enter text using voice commands instead of a mouse, keyboard or remote control. This feature is particularly useful for searching, browsing the web, and using applications that require text input.

Voice Recognition

Screen Menu > Smart Features > Voice Recognition

The displayed image may differ depending on the model.

This function is available only with PDP F5500 series and LED F6400 series or higher.

Voice Recognition lets you access and control specific functions of the TV using voice commands. For the accurate recognition of voice commands, pronounce words and phrases clearly in the language selected in Language.

Ambient noise can interfere with voice recognition. If this is the case, press VOICE and then say the command word/phrase 10cm to 15cm away from the microphone on the remote control. Commands may not be recognized if you speak too softly or loudly. The optimal volume is approximately 60dB (ex: 60 dB: general conversation, 70 dB: telephone ring).

Operating Environment

Voice Recognition voice command should be used within 4m of the TV.

Ambient noise can cause Voice Recognition to malfunction. (Suitable Ambient Noise Level: Less than 40 dB, *40 dB - the sound at library or residential area in the daytime.) Visit the Samsung website for a list of standard voice commands.

The voice recognition rate varies depending on the volume/tone, pronunciation, and ambient environment (TV sound and ambient noise).

Enabling Voice Recognition

Press the VOICE button to run Voice Recognition. Say a command. You can use Voice Recognition to operate the TV.

Basic Voice Recognition Use

You can use the following commands anytime while Voice Recognition is active:

- **Moving the Focus**: Say "Focus left", "Focus right", "Focus up", or "Focus down" to move the focus.
- **Select Item**: Say "Select".
- **Return**: Say "Previous".
- **Available Voice Commands**: Press the VOICE button, a list of basic voice commands available in the current state is shown. With the list displayed on the screen, say "Other Commands". This displays other list of voice commands available in the current state.
- **All Voice Commands**: Press the VOICE button, say "Show all commands" to display a complete list of voice commands by category. Say the name of a category.

Only preset voice commands are recognized. Available voice commands may vary, depending on the software version.

Voice Recognition Settings

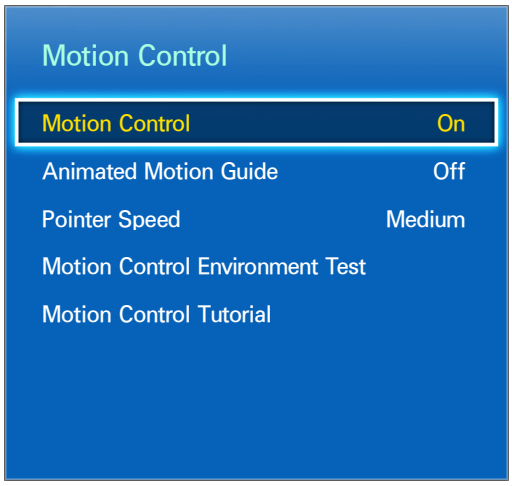
Screen Menu > Smart Features > Voice Recognition

Press the VOICE button to run Voice Recognition.

- Language: Select a language for Voice Recognition.
- Voice Recognition Tutorial: Start the Voice Recognition tutorial to learn how to run it easily.

Motion Control

Screen Menu > Smart Features > Motion Control



- The picture may vary depending on the models.
- May not be available, depending on your regions, models and country.
- This function is not available without connecting to the Internet.

Use Motion Control to change the channel, adjust the volume, move the pointer, and control other TV functions.

Some applications may not support Motion Control.

When the Voice Recognition is running, the Motion Control is not available.

Operating Environment

Make sure that the TV camera is connected to the TV before using motion controls.

Users should be located between 1.5m and 4m from the camera. The actual recognition range may vary depending on the camera angle and other factors.

Motion Control relies on the TV camera and therefore will not function if the camera is pointed up or down. Adjust the camera to the correct angle. Do not point the camera directly at the sun or any other light source or obstruct its view.

In order for the camera to recognise movement, the user has to stand out from the background.

The appropriate ambient brightness is between 50 to 500 lux.

Avoid direct sunlight when using Motion Control.

Run Motion Control Environment Test to assess the camera's recognition range before using Motion Control.

Motion Control Environment Test

Screen Menu > **Smart Features** > **Motion Control** > **Motion Control Environment Test**

Run this test before using **Motion Control** to ensure proper functionality.

1. Run Motion Control Environment Test and select Start within 1.5m and 4m of the TV. If light reflects on the TV screen, user can be difficult to use Motion Control.
2. Adjust the camera angle so that you appear inside the square displayed on the screen. Once you have finished adjusting the camera angle, wave one hand slowly from left to right. Spread your hand out with the palm facing the TV. An arrow cursor appears on the screen when the TV recognizes the action. If recognition fails, try again.

Motion Control Tutorial

Screen Menu > **Smart Features** > **Motion Control** > **Motion Control Tutorial**

A fun and easy way to learn about Motion Control. Launch Motion Control and follow the guide's instructions.

Motion Control Options

Screen Menu > **Smart Features** > **Motion Control**

- **Animated Motion Guide**

  Displays an animated guide when user motion is detected.

- **Pointer Speed**

  Set the speed of the pointer used in Motion Control.

Motion Control Activation

Screen Menu > **Smart Features** > **Motion Control** Try Now

Raise your hand with the palm facing the TV. Hold it for a moment and slowly wave your hand from side to side three or four times. When your hand is successfully recognised, the Motion Control is activated and a pointer is displayed on the screen.

Dropping your hand out of the range of the TV camera deactivates Motion Control. Raise your hand within 3 seconds to reactivate it.

Using the Basic Motion Controls

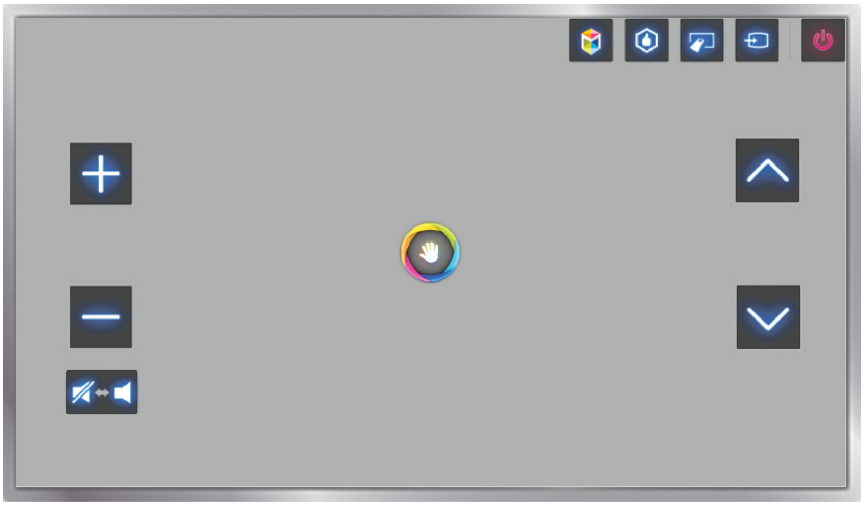
Available motion commands may vary, depending on what the TV is currently doing.

- **Pointing Navigation**: This action moves the cursor to the desired position.
- **Run** / **Select**: Make a fist to select an option or execute a command. Keeping your fist clenched is like holding down a remote control button.
- **Return**: Make a circle with your hand in the counterclockwise direction to return to the previous menu.
- **Turning over screens**: Hold one palm vertical, and swing to the left or right to change the Smart Hub screens.
- **Scrolling a webpage**: While viewing a web page, make a fist on the scroll bar, and then move it up/down to scroll the page up/down.

Motion Control Screen

The Screen Composition while Viewing TV

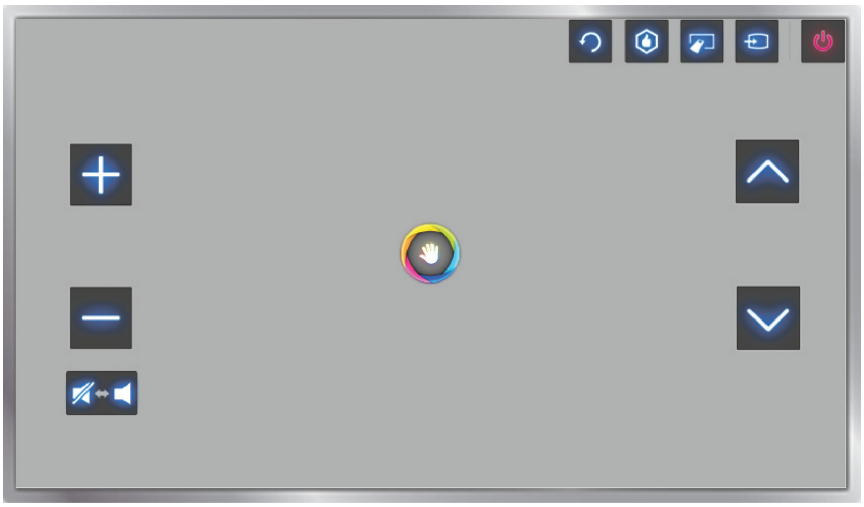
Launching Motion Control while watching TV displays the following icons on the screen.



Icon	Description
/	Adjust the volume.
	Turns the TV sound on / off.
/	Changes the channel.
	Check the recommended programme information and aerial times. Select a programme from the list to view detailed information about that programme.
	Launch Smart Hub.
	Enter a channel number using the number panel to jump to the channel. Use the playback control panel with the on-screen colour buttons to control a media file that is currently playing.
	Change the source.
	Turn off the TV.

The Smart Hub Screen Composition

Launching Motion Control while using Smart Hub displays the following icons on the screen.



Icon	Description
/	Adjust the volume. However, this can only be used from On TV.
	Turns the TV sound on / off. However, this can only be used from On TV.
/	Changes the channel. However, this can only be used from On TV.
	Return to the previous menu.
	Check the recommended programme information and aerial times. Select a programme from the list to view detailed information about that programme.
	Enter a channel number using the number panel to jump to the channel. Use the playback control panel with the on-screen colour buttons to control a media file that is currently playing.
	Change the source.
	Turn off the TV.

Retrieving Icons on the Screen

When using Motion Control with Smart Hub, the icons will disappear automatically after two seconds of inactivity. To retrieve the icons, move the pointer to one of the three edges shown below (marked in blue) and then hold it there for 1 second. The icons will reappear on the screen.

Icon	Description
①	/ / / /
②	/ /
③	/

Face Recognition

(May not be available, depending on your regions and country.)

Users can register their faces and log into their Smart Hub accounts through Face Recognition. One face may be registered per account. Depending on the ambient brightness level and the user's skin tone, the TV may have difficulty recognizing the user's face.

⚠ **When connecting the TV camera to 2013 Samsung TV models, make sure to connect it to the specified USB port of the TV. Other USB ports are not supported for this purpose.**

Operating Environment

- The user should be located between 1.5m and 4m from the camera. The actual recognition range may vary depending on the camera angle and other factors.
- The appropriate ambient brightness is 50 to 500 lux. (100 Lux: Bathroom, 400 Lux: Living Room)
- Face Recognition can recognize up to 5 different users at a time.
- The TV may have difficulty recognising twins and people with similar faces as two different individuals.

Note the following when using Face Recognition.

- Do not cover your face with a hat, a pair of sunglasses, or your hair.
- The user's entire face must be visible to the camera. Avoid shadows over your face. Shadows prevent the camera from recognising your face accurately.
- Keep your expression as neutral as possible. In addition, keep your mouth closed but at the same time as neutral as possible.
- Your facial expression when logging into your Samsung account must be the same as the facial expression during the registration process.

Face Registration

A Smart Hub login is required to register a face. Log into the Smart Hub. Create a new account if you do not already have one.

1. Open the **Smart Features** > **Samsung Account** > **Edit Profile** menu, and select **Register face**.
2. Read the instruction, select **OK**, and then enter the password for the Samsung account.
3. Select **Take picture**, and the user's face appears on the screen. Keep the face to be completely in the red dotted frame. The face is successfully registered when the frame turns green. If it fails, select **Retry**.

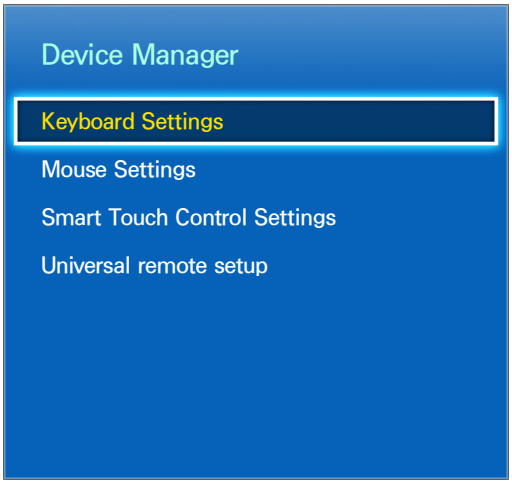
   - The user's entire face must be visible to the camera. Avoid shadows over your face. Shadows prevent the camera from recognising your face accurately.
   - Keep your expression as neutral as possible. In addition, keep your mouth closed but at the same time as neutral as possible.
   - It is better to select the checkbox beside **I want to enter a password as well for increased security**. With the checkbox selected, the user must enter the password when logging in using face recognition.
4. Select **Save** to finish.

Face Recognition Login

Select **Face Recognition** from the login window. The TV automatically recognises a user's face. If recognition fails, try again. If the password entry option has been enabled under **Change account information**, you need to enter your password as well in order to log into the Smart Hub.

- The user's entire face must be visible to the camera. Avoid shadows over your face. Shadows prevent the camera from recognising your face accurately.
- Keep your expression as neutral as possible. In addition, keep your mouth closed but at the same time as neutral as possible.
- Once recognition succeeds, the TV logs into the Smart Hub automatically. If the TV recognises two or more registered faces, a list of corresponding accounts appears. Select the appropriate account. Recognition of an unregistered face prompts a warning.

Using Peripheral Devices



The displayed image may differ depending on the model.

This TV can be controlled with a keyboard and a mouse instead of a remote control.

These peripheral devices make it easier and more convenient to use the TV.

Certain models do not support USB HID class keyboards and mice.

Keyboard Connection

Screen Menu > **System** > **Device Manager** > **Keyboard Settings** Try Now

Connect a keyboard to the TV for easier text entry. To use a USB keyboard, plug the keyboard cable into the TV's USB port. With a Bluetooth keyboard, pair it using the TV's Bluetooth function.

- **Select Keyboard**

  Designate which keyboard to use. Only one keyboard can be used at a time. Try Now

- **Add Bluetooth Keyboard**

  View a list of Bluetooth keyboards within range. Select the keyboard you wish to use.

- **Keyboard Options**

  Configure the language, type and other basic keyboard settings. Try Now

Keyboard Use

Use the following keyboard keys to control the TV.

- Windows (⊞), Menu (TOOLS), Enter (↵), ESC (RETURN), Numbers (Numbers)
- F1 (A), F2 (B), F3 (C), F4 (D), F5 (▦), F6 (SOURCE button), F7 (CH LIST button), F8 (MUTE button), F9/F10 (— / +), F11/F12 (∨ / ∧)

Mouse Connection

Screen Menu > System > Device Manager > Mouse Settings Try Now

Connect a mouse to the TV and right-click on the mouse to bring up the Go To screen. You can then use the screen menu, Smart Hub, and other TV functions using the mouse as you would on a computer.

To use a USB mouse, plug the mouse cord into the TV's USB port. To use a Bluetooth mouse, pair it using the TV's Bluetooth function.

- Select Mouse

  Designate which mouse to use. Only one mouse may be used at a time. Try Now

- Add Bluetooth Mouse

  View a list of Bluetooth mice within range. Select the mouse you wish to use.

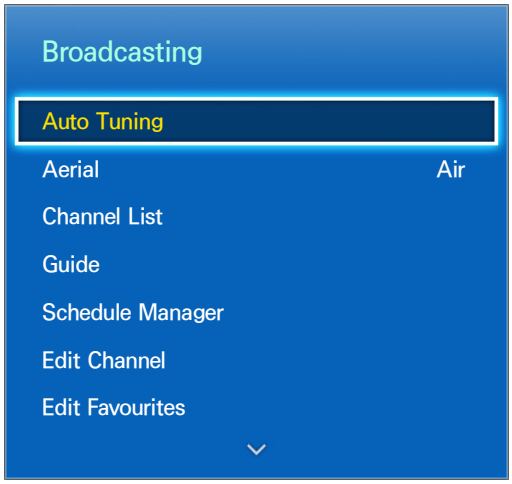
- Mouse Options

  Configure button assignments, pointer speed and other basic mouse settings. Try Now

Mouse Use

- **Left Button**: Selects
- **Right Button**: Brings up the Go To screen, which includes options such as Power Off, Screen Menu, Smart Hub, and Tools.

TV Viewing



The displayed image may differ depending on the model.

Use this feature to view the programme guide and programme information more easily. However, these features are not available when viewing TV using a cable box or satellite receiver.

Programme Info

Select the Virtual Remote panel's or press the regular remote's INFO button while watching TV to view information about the current programme.

However, Programme Info is only available with digital channels. In order to use the Programme Info, you must first set the TV's clock. To set the clock, navigate to Time (System > Time > Clock). The Programme Info may vary depending on the type of incoming signal and may not be available at all for certain programmes.

Tap on the touchpad while the programme information screen is shown to start recording the current programme. In addition, drag left/right on the touchpad to check out other programmes or tap on the touchpad to set up a Timer Viewing or Timer Recording setting for the selected programme.

Not available for LED F5300, PDP F5200.

Change the Broadcast Signal

Screen Menu > **Broadcasting** > **Aerial** Try Now

Choose an aerial to receive digital broadcast signals from.

Guide

Screen Menu > **Broadcasting** > **Guide** Try Now

View each digital channel's programming schedule, including showtimes. Check the programming schedules and even setup a Schedule Viewing or Schedule Recording. Press Guide to launch the guide.

Change Channels

Select a channel from Guide to jump to that channel right away.

Recording the Current Programme

Highlight a programme currently being aired, and select the virtual remote panel's or the regular remote's INFO button. The information screen appears. Select **Watch**. **Record** is only available for the programme currently being aired.

For LED F5300, PDP F5200 series, Recording is not supported.

Quick Search

Press A button. A popup window will open. Dragging left or right on the touchpad moves the focus 24 hours back or forward, enabling faster browsing of the programming schedule. However, the focus cannot be on a time prior to the current time.

Change Category

Press B button to change the channel list.

Schedule Viewing

Select a programme that you wish to view, and then the Virtual Remote panel's or the regular remote's INFO button to display the detailed information screen. Select **Schedule Viewing** from the detailed information screen to set up a **Schedule Viewing**. **Schedule Viewing** is only available for programmes that haven't aired yet. Press C button and navigate to the **Schedule Manager** screen to view a list of reserved programmes.

Schedule Recording

Select a programme that you wish to record, and then the Virtual Remote panel's or the regular remote's INFO button to display the detailed information screen. **Schedule Recording** is only available for programmes that haven't aired yet. Press C button and navigate to the **Schedule Manager** screen to view a list of reserved programmes.

For LED F5300 series, Recording is not supported.

Checking the Programme Info

Highlight a programme and press INFO button. This displays detailed information about the highlighted programme. The Programme Info may vary depending on the type of incoming signal and may not be available at all for certain programmes.

Channel List

Screen Menu > **Broadcasting** > **Channel List** Try Now

Launch **Channel List** while watching TV to change channels or to check what's on other digital channels. Press and hold the touchpad for 2 seconds, or the regular remote's **CH LIST** button, he **Channel List** screen appears.

The Channel List screen icons indicate the following:

- A : An analogue channel
- : A favourites channel
- : A locked channel

Change Channels

Select a channel to jump to it right away. To quickly scroll through the list, use the channel up/down buttons. The focus moves up and down the list in one page.

Sorting

(Digital channels only)

Drag left on the touchpad or press the left arrow button on the remote control.

Change the list ordered by name or number.

Mode

You can choose the following modes : **Aerial**, **Edit Favourites**, **Favourites List**, **All**, **TV**, **Data/Other** and **Analogue**.

- It can only shows the **Favourites** with channels.
- Mode list may vary depending on regions and models.

Change the Broadcast Signal

Drag right on the touchpad or press the right arrow button on the remote control and then select a broadcasting signal. This will change the signal source immediately.

Press the right arrow button on the remote and select a broadcasting signal. This will change the signal source immediately.

<For LED 4500 - 6300, PDP 5200 Series>

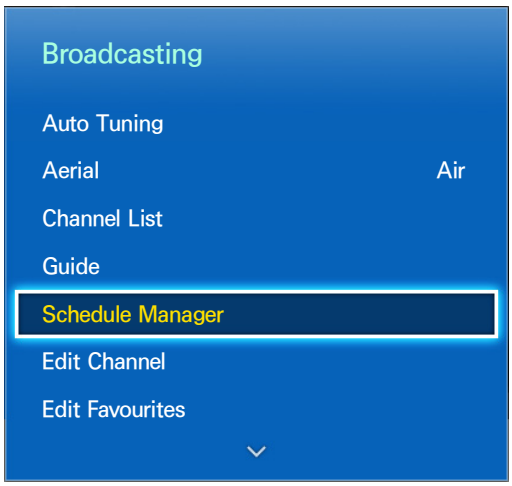
Change the Channel List

Drag right on the touchpad or press the right arrow button on the remote control and then switch to the Added Channels or Favourites list. However, the Favourites list can only be selected if it contains at least one favourites channel. If no favourites channel was previously added, select **Edit Favourites** and add channels from the **Edit Favourites** screen.

Schedule Viewing

Method 1: Screen Menu > **Broadcasting** > **Schedule Manager** Try Now

Method 2: Select the Virtual Remote panel's or the regular remote's **GUIDE** button to activate Guide screen, and then press the C button.



The displayed image may differ depending on the model.

Configure the TV to show a specific channel or programme at a specific time and date. Before scheduling TV watching, make sure that the date and time is set properly under the **System** > **Time** > **Clock** menu.

Digital Channel Schedule Viewing

Schedule Viewing for programmes on digital channels can be set up through the following two options:

- Guide
- Programme Info

Guide

From **Guide**, select a programme you wish to view, drag the touchpad up/down to display the information of current programme and left/right to display the information of the programme that has not yet aired. Press C button to enter the **Schedule Manager** in order to set up a **Schedule Viewing** for the programme.

Programme Info

Select the Virtual Remote panel's or the regular remote's **INFO** button to display information about the current programme. From the programme information screen, drag left/right on the touchpad to select a programme that has not yet aired and set up a **Schedule Viewing** for it.

Analogue Channel Schedule Viewing

The Schedule Viewing function for programmes on analogue channels can be set up by specifying the time and date.

1. Run **Schedule Manager** and then select **Schedule**. A popup menu will appear. Select **Schedule Viewing** to process.
2. Specify that programme's **Aerial**, **Channel**, **Repeat**, and **Start Time** and then select, **OK** to finish.

Cancel a Schedule Viewing

To cancel a Schedule Viewing for a specific programme, select the programme from the **Schedule Manager** screen. A popup menu will appear. Select **Delete** to cancel.

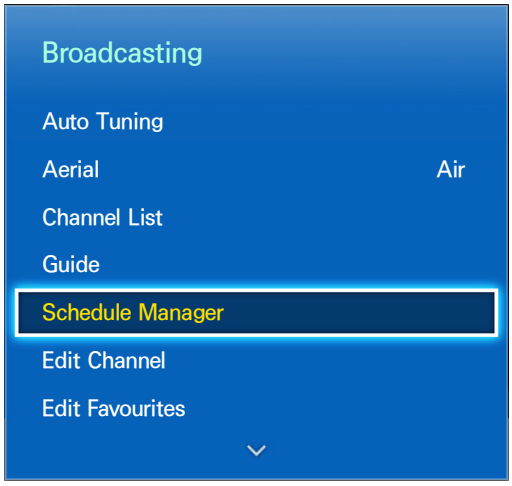
Edit Schedule List

Select an entry from the **Schedule Manager** screen and then select **Edit** from the popup menu. Edit the settings of the selected entry.

Schedule Recording

Method 1: Screen Menu > **Broadcasting** > **Schedule Manager**

Method 2: Select the Virtual Remote panel's or the regular remote's **GUIDE** button to activate Guide screen, and then press the C button to activate **Schedule Manager** screen. and then select **Schedule**. A popup menu will appear. Select **Schedule Recording** to proceed.



The displayed image may differ depending on the model.

This TV is capable of recording current and future programmes onto a USB storage device for later viewing without the use of an external recording device.

Schedule Recording is available for digital channels only.

You can view recordings by selecting **Recorded TV** of the **On TV** or **Photos, Videos & Music**.

Precautions

- To set up a Schedule Recording, you must first set the TV's clock. Set the **Clock** from **System** > **Time** > **Clock**.
- Recordings are DRM-protected and therefore cannot be played back on a computer or on a different TV. In addition, these files cannot be played back on your TV if its video circuit is replaced.
- A USB hard drive with a speed of 5,400rpm or above is recommended. However, RAID-type USB hard drives are not supported.
- The total recording capacity may vary depending on the amount of available hard drive space and the recording quality level.
- **Schedule Recording** requires at least 100MB of free space on the USB storage device. Recording will stop if the available storage space falls below 50MB while recording is in progress.
- If the available storage space falls below 500MB while the Schedule Recording and Timeshift functions are in progress, only the recording will stop.

- The maximum recording time is 360 minutes.
- The TV's settings apply when playing back recordings and using the Timeshift function.
- If the input signal is changed while recording is in progress, the screen will go blank until the switch is made. Recording will resume, but ● will not be available.
- When using the recording function, the actual recording may start a second or two later than the specified time.
- If the Schedule Recording function is running at the same time as a recording is being made on an HDMI-CEC-compliant external device, the priority is given to the Schedule Recording function.
- Connecting a TV-recording USB device automatically deletes abnormally saved Timeshift and recording files.
- If **Off Timer** or **Auto Power Off** has been configured, the TV will override the setting if recording is in progress at the specified time and turn off after the recording has ended.

Dedicated Recording Device Setup

After connecting an external storage device, it must be configured as a dedicated Recorded TV device before the Schedule Recording and Timeshift features can be used.

Plug & Play

1. Press and launch Smart Hub. Select **Recorded TV** from the bottom of the **On TV** or **Photos, Videos & Music** screen to display a list of connected devices. Select the device you wish to use. A popup window appears.
2. Select **Yes**. From the Device Format screen, you can format the device to a system compatible for video recording. Note that formatting the device erases all existing data.
3. Once formatting is complete, test the device to see if it supports the recording and Timeshift functions. Once testing is complete, the device is ready for use with the Schedule Recording and Timeshift functions. A test failure indicates that the selected device cannot be used as a dedicated recording device. Select a different device.

Dedicated Recording Device Management

Manage the external storage device that has been configured as the dedicated recording device.

1. Press and launch Smart Hub. Select **Recorded TV** from the bottom of the **On TV** or **Photos, Videos & Music** screen to display a list of connected devices. Select the dedicated recording device to display the list of files stored on the device.
2. Select **Options** from the top of the screen and then Manage Devices.

The following options are available from the Manage Devices screen:

- **Format Device**: Format the external storage device to a system compatible for video recording.
- **Check Device**: Check if the external storage device uses a system compatible for video recording.
- **Device Performance Test**: Test the external storage device to see if it supports the recording and Timeshift functions.
- **Default Recording Device**: If there are multiple external storage devices connected to the TV, you can designate a default device to use with the recording and Timeshift functions.

Programme Recording

The following options are available for programme recording:

- Instant Recording
- Guide
- Programme Info
- Specified Time and Date

Instant Recording

To record the programme currently being aired, select the virtual remote panel's or the regular remote's button, and then set a desired recording duration.

Guide

Select a current Programme from the **On TV** and press the recording button. You can instantly start recording the current Programme. Digital channels are only available for scheduling.

Programme Info

Select the virtual remote panel's or the regular remote's **INFO** button. The information screen for the programme currently watching appears. From the information screen, press the touchpad, and then you can record the programme. Alternatively, drag left or right on the touchpad and select a programme scheduled to air later, you can reserve the recording. This function is only available with digital channels.

Specified Time and Date

1. Run **Schedule Manager** and then select **Schedule**. A popup menu will appear. Select **Schedule Recording** to proceed.
2. Specify the programme's **Aerial**, **Channel**, **Repeat**, **Start Time**, and **End Time** and then select **OK** to finish.

Cancel the Schedule Recording function

To cancel a Schedule Recording for a specific programme, select the programme from the **Schedule Manager** screen. A popup menu will appear. Select **Delete** to cancel.

Edit Timer List

Select an entry from the **Schedule Manager** screen and then select **Edit** from the popup menu. Edit the settings of the selected entry.

Recorded Programme Playback

Press and launch Smart Hub. Select **Recorded TV** from the bottom of **Photos, Videos & Music** screen. Select the external storage device containing the recorded programmes to display a list of available recordings.

Select a programme from the list or press ► to play the selected programme. Use the remote control or onscreen control buttons while playing the files. Press touchpad or **TOOLS** to show the on-screen control buttons. Press **RETURN** to hide them.

To exit, select the virtual remote panel's or the regular remote's ■ button or press the **RETURN** button.

Changing the Viewing Mode

Select **View** at the top of the list and then select a viewing mode. The list will be sorted in the order corresponding to the selected viewing mode.

Filtered View

Select **Filter** at the top of the list and then select a filter. Only the recorded programmes corresponding to the selected filter will be listed.

Playlist Creation

From the **Options** list at the top of the screen, select **Play Selected**. Select the programmes you wish to play and then select **Play**. You can create a playlist. However, if the list is in Folder view mode, you can only select recordings from within the same folder. To add programmes from other folders to the playlist, change the viewing mode.

Recording Lock/Unlock

From the **Options** list at the top of the screen, select **Lock**. Select the programmes you wish to lock and then select **Lock**. This locks all the selected programmes.

To unlock a programme, go to the **Options** list at the top of the screen and select **Unlock**. Select the programmes you wish to unlock and select **Unlock**. This unlocks all selected programmes.

Deleting Saved Programmes

From the **Options** list at the top of the screen, select **Delete**. Select all the programmes you wish to delete and select **Delete**. This deletes all selected programmes.

Rename

From the **Options** list at the top of the screen, select **Rename**. Select the programme you wish to rename. Enter the new name using the keypad and then select **Done** to finish renaming the programme. The new name can be up to 29 characters long.

Device Management

Designate a device connected to the TV as a dedicated recording device.

Playing a Different Programme

- Select the ⏮ / ⏭ on-screen button.
- Select the **Search** on-screen button and then **Search Titles**.

Programme Scan

- Drag left/right on the touchpad. Scan 10 seconds backward or forward.
- Press ◀◀ / ▶▶. You can change the playback speed by a factor of up to 7. To restore normal playback speed, press ▶. Alternatively, press ▶▶ while paused to reduce the playback speed (1/8, 1/4, 1/2). Slow playback doesn't support audio and is available in the forward direction only.
- Press ⏸ to pause the screen and then ⏸ to scan through the paused video in 1-frame increments. Audio is not supported while the video is paused.
- Select **Search** from the on-screen control buttons and then select **Search Scene**. You can play the file from a particular scene. However, this function is not available with the following.
  - Scene thumbnails are not created.
  - Only sound is recorded.
  - The recording time is under 60 seconds.
- Select the **Search** on-screen button and then **Search Time Bar**. You can play the file from a particular scene. However, this function is not available with the following.
- Select the ⏮ on-screen button. This plays the video from the beginning.

Additional Recorded Programme Playback Settings

- **Repeat**

  Select the **Repeat** on-screen button. This changes the repeat mode. **Repeat One** repeats the current programme only. **Repeat All** repeats all programmes contained in the folder.

- **Picture Size**

  Select the **Picture Size** on-screen button and then select the picture size.

- **Receiver**

  Select the **Receiver** on-screen button and then power on the receiver.

- **Picture Mode**

  Select the **Settings** on-screen button and then select **Picture Mode**. Select the Picture Mode setting.

- **Sound Mode**

  Select the **Settings** on-screen button and then select **Sound Mode**. Select the Sound Mode setting.

- **Audio Language**

  Select the **Settings** on-screen button and then select **Audio Language**. Select an Audio Language. However, this option is only available with streaming videos that support multiple audio formats.

- **Subtitle Settings**

  Select the **Settings** on-screen button and then select **Subtitle Settings**. Select the Subtitle Settings.

- **Information**

  In the Screen Control button, select **Settings** and **Information**. You can view more detailed information about the current programme.

However, this option is only available with the recorded program that support multiple audio formats.

Timeshift

Timeshift temporarily records the current programme. Using this feature, users can pause and resume a live programme and even scan through it backward or forward. However, Timeshift is only available for digital channels. In addition, activating the Timeshift function disables the **Broadcasting** menu.

Precautions

- Recordings are DRM-protected and therefore cannot be played back on a computer or on a different TV. In addition, these files cannot be played back on your TV if its video circuit is replaced.
- The maximum amount of time available for the Timeshift function is 90 minutes.
- The Timeshift function is not available for locked channels.
- A USB hard drive with a speed of 5,400rpm or above is recommended. However, RAID-type USB hard drives are not supported.
- **Device Performance Test** must be performed on the USB storage device connected to the TV before the Timeshift function can be used. **Device Performance Test** can be initiated from Smart Hub > **On TV** or **Photos, Videos & Music** > **Recorded TV**.
- The total recording capacity may vary depending on the amount of available hard drive space and the recording quality level.
- The TV's settings apply when playing back recordings and using the Timeshift function.
- Connecting a TV-recording USB device automatically deletes abnormally saved Timeshift and recording files.
- The Timeshift function may terminate automatically once it reaches its maximum capacity.
- The Timeshift function requires at least 1.5GB of free space available on the USB storage device.
- Launching an application, switching to an analogue channel, and otherwise changing the TV to a state that does not support the Timeshift function automatically terminates the Timeshift function. The Timeshift operation will resume if the TV is changed back to a digital channel again.

Activating the Timeshift function

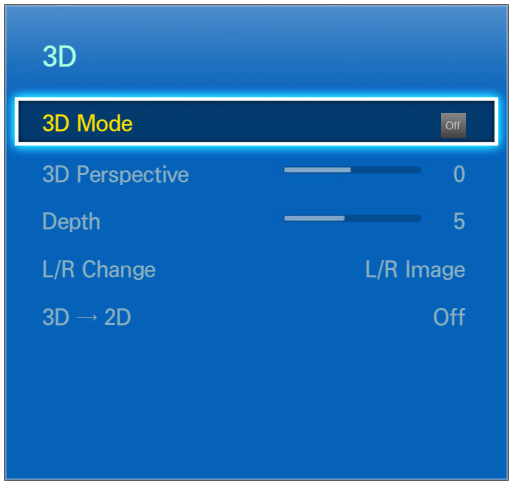
Press ► while watching TV to activate the Timeshift function. The Timeshift Progress Bar appears on the screen.

The Timeshift control buttons and functions are as follows:

- ◄◄ / ►►: You can change the playback speed by a factor of up to 7. To restore normal playback speed, press ► button.
- Drag left/right on the touchpad. Scan 10 seconds backward or forward.
- ■: Press while viewing a Time Shifted segment to return to real time. Press while in real-time viewing mode to deactivate the Time Shift function.
- ❚❚: Pause the screen. Press ❚❚ button while in the paused state to scan one paused frame at a time. Audio is not available when the TV is paused in Time Shift mode, and frame-by-frame scanning is only available in the forward direction. Press ◄◄ / ►► button while in the paused state to resume playback at 1/4th the normal speed.

3D TV

Screen Menu > **Picture** > **3D**



The pictures may vary depending on the models.

This feature is only available on LED 6400, PDP 5500 series and higher.

This SMART TV is 3D-enabled. For the best 3D viewing experience, users must wear Samsung's 3D Active Glasses.

The ideal viewing distance is three times or more the height of the screen. We also recommend sitting with your eyes level with the screen.

Precautions

Carefully read the health and safety information concerning 3D viewing before viewing the TV in 3D.

Refer to the "3D Active Glasses Precautions" for more information.

⚠ **walking or moving. You may injure yourself by tripping or bumping into objects.**

Restrictions

There are several restrictions when using 3D TV:

- Running the Smart Hub automatically deactivates 3D viewing.
- **PIP** cannot be used.
- Certain **Picture** options are disabled.
- IR Type Samsung 3D Active Glasses and third-party 3D glasses are not supported.

Tips

- The left and right 3D images may initially overlap when the TV is turned on. It takes a moment for the display to optimize and the overlapping to go away.
- The 3D Active Glasses may not work properly if there is another 3D product or electronic device turned on near the glasses or TV. If there is a problem, keep other electronic devices as far away as possible from the 3D Active Glasses.
- Whether or not 3D video is displayed in true HD is usually determined by the quality of the content.

Activating 3D Mode

Screen Menu > **Picture** > **3D** > **3D Mode**

Choose a 3D mode according to the input signal. **Some 3D contents may differ preferred 3D mode. In this case, change the desired 3D mode for watching.** Select a 3D mode from the available 3D modes depending on the input signal. Available 3D modes may vary depending on the input signal.

- Off: Deactivates 3D viewing.
- Normal: Converts normal images to 3D images. Some formats do not support this mode.
- L/R: Splits a single image into left and right overlapping images to create the 3D effect.
- T/B: Splits a single image into top and bottom overlapping images to create the 3D effect.

3D Effects

There are several adjustments that can be made to make 3D content more enjoyable.

- **3D Perspective**

  Adjusts the 3D perspective.

- **Depth**

  Adjusts the 3D depth. This option cannot be used if 3D mode is set to (L/R) or (T/B).

- **L/R Change**

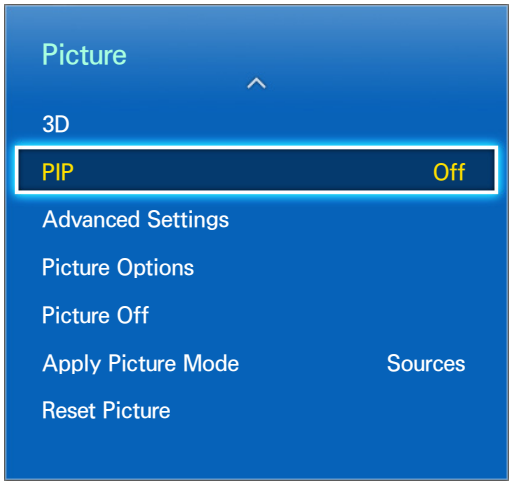
  Swaps the left and right pictures.

- **3D → 2D**

  Converts 3D images to normal images. This function is not available if 3D mode is set to (Normal) or (Off).

PIP

Screen Menu > Picture > PIP Try Now



The pictures may vary depending on the models.

Display video from an external device on the main screen and the TV as a picture-in-picture. For example, you can display a Blu-ray movie on the main screen and simultaneously watch TV as a picture-in-picture. PIP is not available while the Smart Hub or 3D TV is active. Turning off the TV while PIP is active automatically deactivates PIP.

- PIP: Activates/deactivates PIP.
- Aerial: Before your television can memorize the available channels, you must select your TV's signal source, Air (using an antenna) or Cable. Select Air or Cable.
- Channel: Selects the PIP sub-picture channel.
- Size: Selects the PIP sub-picture size.
- Position: Selects the PIP sub-picture position.
- Sound Select: Selects the audio source.

  Playing a game or using the karaoke feature on the main screen can result in a lower PIP picture quality.

  To watch TV as a picture-in-picture, the main screen's source must be set to Component or HDMI. The PIP window supports TV signals only.

Analogue Screen Calibration

Analogue pictures can become shaky and full of noise. If this happens, you can fine tune the signal or reduce noise to clear up the picture.

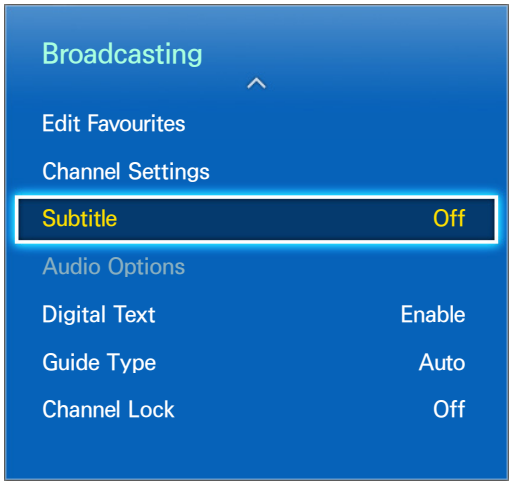
Fine Tune

Screen Menu > **Broadcasting** > **Channel Settings** > **Fine Tune** Try Now

Clear up shaky pictures. Fine tune the pictures until they are clear and then select **Save** or **Close**. Select **Reset** to reset the Fine Tune operation. This option is only available for Analogue broadcasts.

Subtitles

Screen Menu > Broadcasting > Subtitle Try Now



The displayed image may differ depending on the model.

View subtitles along with subtitle-enabled digital and analogue broadcasts.

Show Subtitles

Screen Menu > Broadcasting > Subtitle > Subtitle Try Now

Show subtitles. Subtitles will be displayed when you choose a broadcast that supports subtitles.

Switches subtitles On or Off.

- Subtitle Mode Try Now

  Sets the subtitle mode.

- Subtitle Language Try Now

  Sets the subtitle language.

DVD Subtitles are only available when connected to an external input connector.

Subtitle Options

Screen Menu > Broadcasting > Subtitle

Select a subtitle mode. The list of modes may vary depending on the broadcast.

- Primary Subtitle Try Now

  (T-Chinese/S-Chinese/English)

  Set the primary subtitle language.

- Secondary Subtitle Try Now

  (T-Chinese/S-Chinese/English)

  Set the secondary subtitle language.

TV Image Settings

The image quality varies depending on the source. This TV is equipped with a wide range of settings to optimize results.

- Basic Settings
- Advanced Settings
- Picture Options

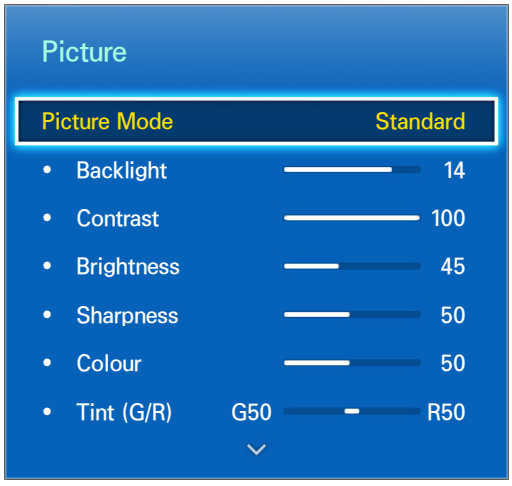
Basic Settings

Screen Menu > **Picture**

The basic image settings alter the look and feel of the image displayed on the TV screen.

Changing the Picture Mode

Screen Menu > **Picture** > **Picture Mode** Try Now



The displayed image may differ depending on the model.

Choose the optimal picture mode for your TV viewing conditions. When connected to a PC via an HDMI-to-DVI cable, only the **Standard** and **Entertain** modes can be chosen.

- **Dynamic**

  This increases the brightness of the screen. It is most suitable for bright environments.

- **Standard**

  This is the default mode.

- **Natural**

  This is useful for reducing eye strain. This mode is available for LED TVs only.

- **Movie**

  Darkens the screen and reduces glare. Appropriate for darkened rooms, for watching movies, and when experiencing eye fatigue.

- **Entertain**

  Sharpens images for a more dynamic viewing experience. This mode is only available when connected to a computer via an HDMI-to-DVI cable.

Picture Quality

Screen Menu > **Picture**

Choose a **Picture Mode** and then select the following options to display a slide bar that allows the corresponding setting to be adjusted. To adjust the value and to move up and down the list. Adjusted values are applied to the current source and will remain in effect the next time the source is selected. When connected to a computer via an HDMI-to-DVI cable, neither the **Colour** or **Tint (G/R)** adjustment options can be chosen.

- **Backlight**

  Adjusts the brightness of individual pixels. Decreasing the brightness reduces power consumption.

This option is only available for LED TVs.

- **Cell Light**

  Adjusts the brightness of the panel. Decreasing the brightness reduces power consumption.

This option is only available for PDP TVs.

- **Contrast**

  Adjusts the screen contrast. Try Now

- **Brightness**

  Adjusts the overall brightness. Try Now

- **Sharpness**

  Sharpens or dulls the edges of objects. Try Now

- **Colour**

  Adjusts the overall colour saturation. Try Now

- **Tint (G/R)**

  Adjusts the ratio of green to red. Increase the green value to saturate the greens and the red value to saturate the reds. Try Now

Applying the Current Picture Quality Setting to Another Input

Screen Menu > **Picture** > **Apply Picture Mode**

You can apply the picture quality setting that you configured for the TV to all external devices connected to the TV.

To apply the setting to all external devices connected to the TV, select **All Sources**. To only apply the setting to the current input, select **Current Source**.

Picture Size

Screen Menu > **Picture** > **Picture Size** Try Now

Use this to change the picture size and aspect ratio of the TV screen, if required.

An attached cable box or satellite receiver may have its own screen sizes. The TV's 16:9 mode should be used most of the time, as this is the default mode. Refer to the "Picture Size and Input Signal" table.

Options of **Picture Size** may vary depending on the regions and country.

- **Auto Wide**

  Automatically adjusts the picture size to the 16:9 aspect ratios.

- **16:9**

  Set the picture to the 16:9 wide-screen format.

- **Wide Zoom**

  Magnifies the picture size more than 4:3. A magnified picture can be moved up and down.

- **Zoom**

  Magnifies the 16:9 wide pictures vertically to fit the screen size. A magnified picture can be moved up and down.

- **4:3**

  Sets the picture to basic 4:3 mode.

⚠ **Do not leave the TV in 4:3 mode for an extended period. The dark borders displayed on the left and right/top and bottom of the screen may cause image retention (screen burn). This is not covered by the warranty.**

- **Screen Fit**

  Displays the full image without any cutoff.

- **Smart View 1**

  Reduces a 16:9 picture by 50%. This mode is only available for LED TVs and in HDMI mode.

- **Smart View 2**

  Reduces a 16:9 picture by 25%. This mode is only available for LED TVs and in HDMI or DTV mode.

Picture Size and Input Signal

Picture Size	Input Signal
16:9	ATV, AV, Component(480i, 480p), DTV (720p,1080i,1080p), Component(720p, 1080i, 1080p), HDMI (720p,1080i, 1080p)
Wide Zoom, Zoom	ATV, AV, Component(480i, 480p)
4:3	ATV, AV, Component(480i, 480p), DTV (720p,1080i,1080p), Component(720p, 1080i, 1080p), HDMI (720p,1080i, 1080p)
Smart View 1	HDMI (720p,1080i, 1080p)
Smart View 2	DTV (720p,1080i,1080p), HDMI (720p,1080i, 1080p)
Screen Fit	HDMI (720p,1080i, 1080p), Component(1080i, 1080p), HDMI (720p,1080i, 1080p)

The **Picture Size** setting is applied to the current source and the applied **Picture Size** will remain in effect the next time the source is selected.

Screen Position

Screen Menu > **Picture** > **Picture Size** > **Zoom/Position** Try Now

The screen position can be adjusted if **Picture Size** is set to **Wide Zoom**, **Zoom**.

1. To adjust the screen position, select **Zoom/Position** and then **Zoom/Position** from the popup window.
2. Use the arrow buttons to adjust the screen position and select **Position** and then **Close**. Select **Reset** to reset the screen position.

<For LED 4500 - 6300 Series>

1. To adjust the screen position, select Position and then Position from the popup window.
2. Press the arrow buttons on the remote to move the screen. Once done, select Position and then Close. Select Reset to reset the screen position.

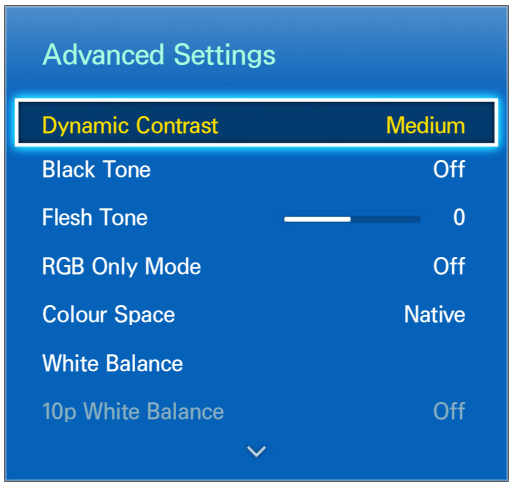
4:3 Screen Size

Available only when picture size is set to Auto Wide. You can determine the desired picture size at the 4:3 WSS (Wide Screen Service) size or the original size. Each European country requires different picture size.

Not available in Component or HDMI mode.

Advanced Settings

Screen Menu > Picture > Advanced Settings Try Now



Use Advanced Settings to fine-tune how images are displayed on the TV screen. The Advanced Settings option is only available when Picture Mode is set to Standard or Movie. When the TV is connected to a computer via an HDMI-DVI cable, only White Balance and Gamma can be adjusted.

- Dynamic Contrast

  (Off/Low/Medium/High)

  Automatically adjusts the screen contrast. Use this option to achieve the optimal contrast setting. Try Now

- Black Tone

  (Off/Dark/Darker/Darkest)

  Adjusts the black colour depth. Try Now

- Flesh Tone

  Adjusts the amount of red in skin-colour tones. Try Now

- RGB Only Mode

  (Off/Red/Green/Blue)

  Adjusts the red, green, and blue levels individually. Try Now

- Colour Space

  (Auto/Native)

  Adjust the range of colours that can be expressed on screen. Auto automatically adjusts the colour space depending on the input signal, and Native applies a range that is wider than the input signal. Try Now

- **White Balance**

  Adjusts the colour temperature of the picture to make white objects look white and the overall picture appear natural. Adjust each colour's luminosity with the offset menu and the brightness with the gain menu. To restore the default values, select **Reset**. Try Now

- **10p White Balance**

This function is only not available on the LED F5300 - F5500 series and PDP F5500 series.

Adjusts the white balance by adjusting the brightness of the red, green, and blue elements in 10-point intervals. This option is only available when **Picture Mode** is set to **Movie** and may not be supported by some external devices.

- **Gamma**

  Adjusts the primary colour intensity. Try Now

- **Expert Pattern**

This function is only not available on the LED F5300 - F5500 series and PDP F5500 series.

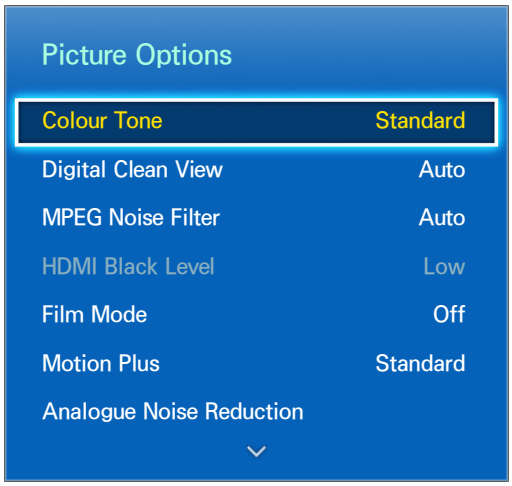
Displays picture calibration patterns on the screen without using a separate pattern generator or filter. **Pattern1** is used to calibrate the contrast, and **Pattern2** is used for calibrating the colour and colour saturation. If the screen menu disappears or a different menu is activated while the screen is being calibrated, this option will save the changes up to that point and automatically deactivate that menu. This feature is enabled in Component and HDMI modes only.

- **Motion Lighting**

  Adjusts the picture brightness depending on the on-screen movements for reduced power consumption. This feature is only available when **Picture Mode** is set to **Standard** and is not available in 3D mode. In addition, adjusting **Contrast** or **Brightness** automatically deactivates this feature. Try Now

Picture Options

Screen Menu > Picture > Picture Options Try Now



The pictures may vary depending on the models.

Use Picture Options to further improve the picture quality. When connected to a computer via an HDMI-to-DVI cable, users can only change Colour Tone.

- Colour Tone

  (Cool/Standard/Warm1/Warm2)

  Adjusts the colour tone. The setting is applied on an individual Picture Mode basis. When Picture Mode is changed, the corresponding setting will apply automatically. If Picture Mode is set to Dynamic, users can only choose between Cool and Standard. Try Now

- Digital Clean View

  (Off/Low/Medium/High/Auto/Auto Visualisation)

  Reduces static and ghosting caused by weak signals. This feature is only available for ATV channels. Selecting Auto Visualisation displays the signal strength on the screen. Green indicates the best possible signal. Try Now

- MPEG Noise Filter

  (Off/Low/Medium/High/Auto)

  Reduces MPEG noise and improves the video quality. Try Now

- HDMI Black Level

  Certain external devices connected to the TV via an HDMI cable can produce issues such as black level, low contrast, and dull colours. In this case, users can adjust the black level to compensate. This feature is only available in HDMI mode. Try Now

- Film Mode

  Optimizes the picture quality for movies. Select the mode for watching movies. This feature is only available when watching TV or when the input signal is AV, Component (480i, 1080i), or HDMI (1080i). The Cinema Smooth option is only active when the TV inputs an HDMI 24Hz signal. The Cinema Smooth option is only available for PDP productions. Try Now

- **Motion Plus**

  Removes drag from fast scenes with a lot of movement to provide a clearer picture. This feature is only available for LED TVs.

  > The Info screen on your TV displays the resolution and frequency of the incoming signal (60Hz), but not the frequency the TV is generating for the image it is displaying by using **Motion Plus** function.

  > If noise occurs on the screen, please set up the **Motion Plus** to **Off**. If **Motion Plus** is **Custom**, you can set up the **Blur Reduction**, **Judder Reduction**, **LED Clear Motion** or **Reset**.

  - **Blur Reduction**: Adjusts the blur reduction level from video sources.
  - **Judder Reduction**: Adjusts the judder reduction level from video sources when playing films.
  - **LED Clear Motion** : Removes drag from fast scenes with a lot of movement to provide a clear picture.
  - **Reset**: Reset the custom settings to the factory defaults.

- **Analogue Noise Reduction**

  Reduce diagonal noise in the picture, caused by the crosstalk of signals.

- **Black Optimiser**

  > This function is available only with PDP F5200 - F5500 series and LED F6800 series.

  Adjust overall black colour depth to give a change to picture depth. This is not available when playing a media file or using the TV as a computer display.

Picture Off

Screen Menu > **Picture** > **Picture Off**

Turns off the screen and plays audio only. To turn the screen back on, press any button except volume or power button.

Reset Image Settings

Screen Menu > **Picture** > **Reset Picture** Try Now

Reset all image settings for the current **Picture Mode** to the default settings. This does not affect other Picture Modes.

Sound Settings

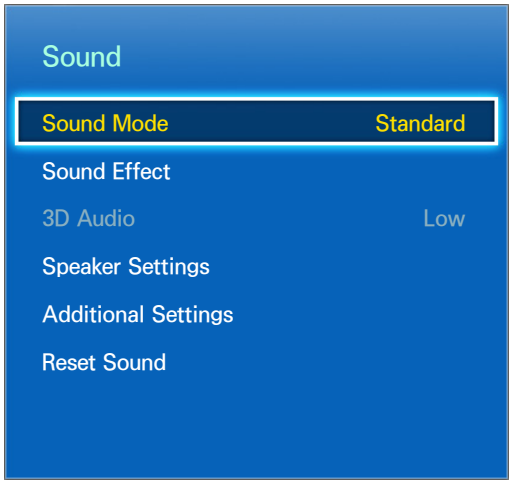
(The pictures may vary depending on the models)

The sound quality varies depending on the source. This TV is equipped with a wide range of settings to optimize results.

- Sound Mode
- Sound Effect
- 3D Audio
- Speaker Settings
- Additional Settings
- Reset Sound

Sound Settings

Screen Menu > **Sound**



Use the Sound Settings to change the sound mode, enable/disable surround sound, adjust the equalizer, and optimize the TV's sound.

Changing the Sound Mode

Screen Menu > **Sound** > **Sound Mode** Try Now

Sound modes make adjustments to the sound output. However, Sound Modes are not available when using external speakers only.

- **Standard**

  This is the normal sound mode.

- **Music**

  This mode emphasizes normal music instead of voices.

- **Movie**

  This mode is calibrated to provide the best sound for movies.

- **Clear Voice**

  This mode emphasizes voices.

- **Amplify**

  This increases the overall intensity of high-frequency sounds for a better listening experience. It is designed for hearing-impaired listeners.

Adjusting the Sound Settings

Screen Menu > **Sound** > **Sound Effect** Try Now

Use sound effects to alter how the TV projects sound. These options are available only when **Speaker Select** is set to **TV Speaker** and **Sound Mode** is set to **Standard**.

- **DTS TruSurround**

  Experience surround sound as if you were sitting in a cinema or concert hall. Try Now

- **DTS TruDialog**

  Emphsaise voice while maintaining background sound levels. Try Now

- **Equaliser**

  Adjusts the speaker balance and makes bandwidth adjustments. Select **Reset** to reset the settings. Try Now

3D Audio

<Only for LED F6400 Series and above, PDP F5500 Series>

Screen Menu > **Sound** > **3D Audio**

3D audio technology provides immersive sound that matches the pop-up effect of 3D video by using perspective in the audio depth control. 3D Audio is only available while viewing 3D content.

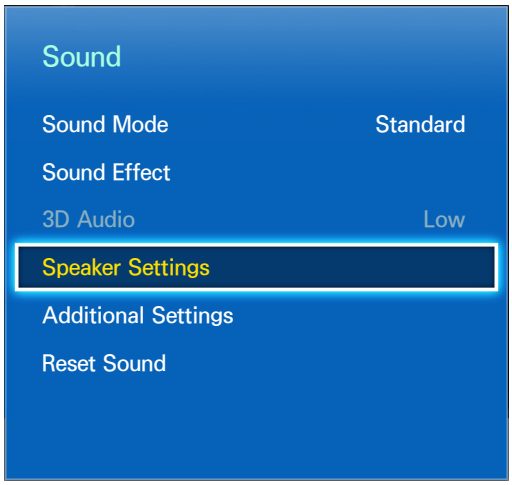
Speaker Settings

(The pictures may vary depending on the models)

If the TV's audio is sent to an external device such as a home theatre system, you can designate which speakers to use and make adjustments to eliminate decoding speed echoes.

Speaker Select

Screen Menu > **Sound** > **Speaker Settings** > **Speaker Select** Try Now



The picture may vary depending on the models.

Specify which speakers you wish to use. To use both the TV and the external speakers, select **TV Speaker**. **External Speaker** turns off the TV speakers and uses the external speakers only.

Using the external speakers only disables the volume button and the mute function. In addition, certain **Sound** options will be disabled.

Auto Volume

Screen Menu > **Sound** > **Speaker Settings** > **Auto Volume** Try Now

Because each station has its own set of broadcasting conditions, the volume may fluctuate as the channel changes. The Auto Volume function automatically adjusts the volume of a channel by lowering or raising the sound output. **Normal** applies a normal level of volume adjustment, whereas **Night** applies a slightly lower volume level than **Normal** and is ideal for nighttime TV viewing. To use the volume control of a connected source device, deactivate the Auto Volume function. When using the Auto Volume function with a source device, the device's volume control may not function properly.

Samsung Audio Device Connection

Screen Menu > **Sound** > **Speaker Settings** > **SoundShare Settings**

Connect the TV to a Samsung audio device for a richer, clearer sound. This function is available for Samsung Audio Device supported the SoundShare function.

Pair the Samsung audio device using the TV's Bluetooth function. Refer to the Samsung audio device's operating manual for more information on pairing.

- **Add New Device**

  Enables/disables SoundShare. Connection signals from new devices are ignored if they are set to Off.

- **Samsung Audio Device List**

  Displays a list of paired Samsung audio devices. Select a device to display its menu options. Activate/deactivate the audio device or remove it from the list.

TV Installation Type

Screen Menu > **Sound** > **Speaker Settings** > **TV Installation Type**

This TV can produce slightly different sound according to how the TV is installed. Choose either **Stand** or **Wall Mount**.

Additional Settings

Screen Menu > **Sound** > **Additional Settings**

Configure additional settings for optimum audio output.

- **DTV Audio Level**

  (Digital channels only)

  This function allows you to reduce the disparity of a voice signal (which is one of the signals received during a digital TV broadcast) to a desired level.

According to the type of broadcast signal, MPEG / HE-AAC can be adjusted between -10dB and 0dB. To increase or decrease the volume, adjust between the range 0 and -10 respectively.

- **DTV Audio Out**

  DTV Audio Out is used to provide digital sound, reducing interference going to speakers and various digital devices such as a DVD player.

  - Audio Format : You can select the Digital Audio output (SPDIF) format.

    The available Digital Audio output (SPDIF) format may differ depending on the input source.
  - Audio Delay

    Lets you correct timing mismatches between the audio track and the video when you are watching the TV and listening to digital audio output from the TV through an external device such as an AV receiver. When you select the Audio Delay function, a slider screen appears. Adjust the option value using your remote control (0ms ~ 250ms).
- **Dolby Digital Comp**

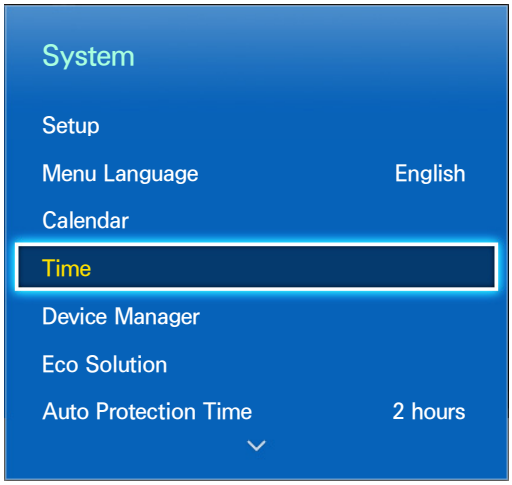
  This function minimizes signal disparity between a dolby digital signal and a voice signal (i.e. MPEG Audio, HE-AAC, ATV Sound).

Resetting the Sound

Screen Menu > **Sound** > **Reset Sound** Try Now

This resets all sound settings to the factory defaults.

Clock and Timer



The pictures may vary depending on the models.

Use the clock and timer to make scheduled use of the TV easier and more efficient. Once the clock has been set, you can select the Virtual Remote panel's or the regular remote's INFO button to check the current time. The clock must be reset every time the power is disconnected.

Setting the Time

Screen Menu > **System** > **Time** > **Clock** Try Now

Set the clock manually or automatically.

This option may not be available, depending on regions.

Clock Set

Screen Menu > **System** > **Time** > **Clock** > **Clock Set**

Set the **Date** and **Time** manually. You can set the current date and time using your remote.

Available only when the Clock Mode is set to Manual.

Sleep Timer

Screen Menu > **System** > **Time** > **Sleep Timer** Try Now

This function automatically shuts off the TV after a preconfigured period of time. You can set the timer up to 180 minutes in 30minute increments.

On Timer

Screen Menu > **System** > **Time** > **On Timer** Try Now

Set the On Timer so that the TV turns on automatically at a chosen time. Only three On Timer settings (**On Timer 1**/**On Timer 2**/**On Timer 3**) can run concurrently. The clock must be set for the On Timer to work.

- **Setup**

  Use the up and down arrow buttons to specify the time period. Use **Manual** to specify the days of the week.

- **Time**

  Specifies the on time.

- **Volume**

  Specifies the volume when the TV turns on.

- **Source**

  Selects a signal source from the list. Specify a channel or source to be displayed when the TV turns on. To specify a USB device, a USB device must first be connected to the TV. To playback media from an HDMI or Component source such as a DVD player or Blu-ray player, the device must already be turned on and playing the media when the TV is turned on.

- **Aerial**

  Choose the aerial you want.

- **Channel**

  Set **Source** to **TV** to select a channel. Select the desired channel.

- **Music** / **Photo**

  Set **Source** to **USB** to specify a USB device folder containing music and image files. Selecting both music and image files plays the music files and displays the images at the same time.

  - This feature will not function properly if the selected USB device does not contain media files or a folder has not been specified.
  - The slide show will not start if there is only one image file on the USB device.
  - Folders with long names cannot be selected.
  - Always use different folder names for multiple USB devices.
  - Use a USB memory stick or multi-card reader. **On Timer** may not work with certain battery-powered USB devices, MP3 players, or PMPs because the TV may take too long to recognise the device.

Off Timer

Screen Menu > **System** > **Time** > **Off Timer** Try Now

Set the Off Timer to turn the TV off automatically at a specific time. Only three Off Timer settings can be entered concurrently. The clock must be set for the Off Timer to work.

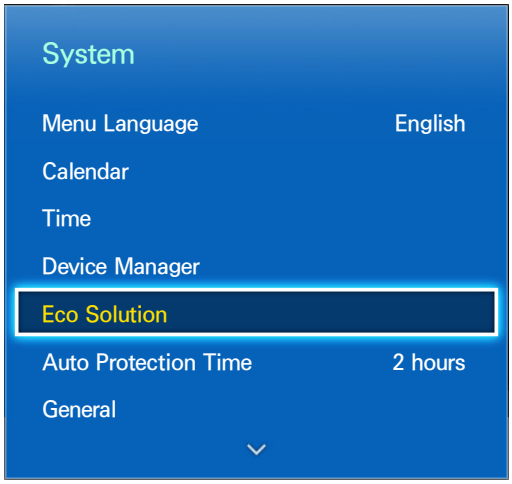
- **Setup**

  Use the up and down arrow buttons to specify the time period. Use **Manual** to specify the days of the week.

- **Time**

  Sets the time for the TV to automatically turn off.

Screen Protection and Maintenance



The pictures may vary depending on the models.

Several onboard functions exist that help maintain the TV beyond its useful lifespan and decrease power consumption.

Eco Solution

Screen Menu > **System** > **Eco Solution** Try Now

Eco Solution adjusts the TV's brightness level and prevents overheating to reduce overall power consumption.

- **Energy Saving**

  (Off/Low/Medium/High)

  Select a brightness setting from the list to reduce the TV's power consumption. Try Now

- **Eco Sensor**

  Automatically adjusts the TV's brightness level based on the ambient light level to reduce the TV's power consumption. If the Eco Sensor has adjusted the screen's brightness level, you can manually adjust the screen's minimum brightness level by adjusting **Min. Backlight** or **Min Cell Light** (For PDP models). If **Eco Sensor** is enabled and the **Picture** menu's **Backlight** or **Cell Light**(For PDP models) value is changed, **Eco Sensor** is automatically disabled. Try Now

- **No Signal Power Off**

  (Off/15 min/30 min/60 min)

  Select a time from the list. If no signal is received for the specified duration, the TV will automatically cut off the power to reduce power consumption. Try Now

- **Auto Power Off**

  If the TV remains turned on for four hours without any user input, the TV will automatically turn off to prevent overheating. Try Now

Auto Protection Time

Screen Menu > **System** > **Auto Protection Time**

Select a time from the list. If a still image is shown on the screen for the specified duration of time, the TV will automatically activate the Screen Burn Protection function to prevent burnt-in ghost images. This feature is only available for LED TVs.

Screen Burn Protection

Screen Menu > **System** > **Screen Burn Protection**

To reduce the possibility of screen burn, this unit is equipped with Pixel Shift screen burn prevention technology. Pixel Shift moves the picture slightly on the screen. The Pixel Shift Time setting allows you to Programme the time between movements of the picture in minutes.

This feature is only available for PDP TVs.

- **Pixel Shift**

  Using this function, you can set the TV to move pixels minutely on the PDP screen in a horizontal or vertical direction to minimize after images on the screen.

Available Pixel Shift settings and optimum settings:

- **Horizontal**
  - Available Settings: 0 - 4 (pixels)
  - Optimum settings for TV/AV/Component/HDMI: 4
- **Vertical**
  - Available Settings: 0 - 4 (pixels)
  - Optimum settings for TV/AV/Component/HDMI: 4
- **Time** (minute)
  - Available Settings: 1 - 4 min
  - Optimum settings for TV/AV/Component/HDMI: 4 min

  The **Pixel Shift** value may differ depending on the monitor size (inches) and mode.

  This function is not available in the **Screen Fit** mode.

- **Auto Protection Time**

  If the screen displays a still image for a certain period of time you define, the TV activates the screen saver to prevent the formation of burnt in ghost images on the screen. Try Now

- **Scrolling**

  This function removes after-images on the screen by illuminating all the pixels on the screen according to a pattern. Use this function when there are after images or symbols on the screen, especially when you displayed a still image on the screen for a long time. Try Now

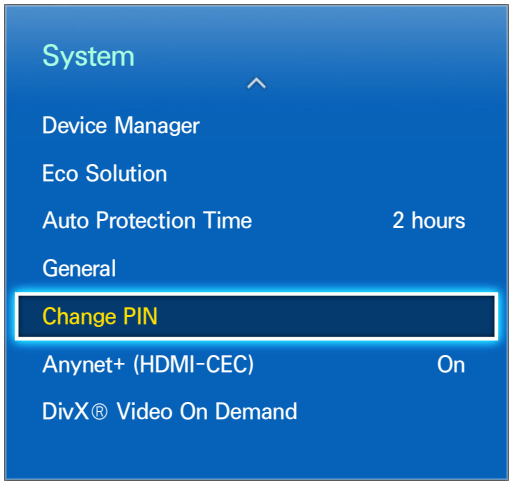
  > The after-image removal function has to be executed for a long time (approximately 1 hour) to effectively remove after-images on the screen. If the after-image is not removed after you apply the function, repeat the function.

  > Press any button to cancel this feature.

- **Side Grey**

  When you watch TV with the screen ratio set to 4:3, using the **Side Grey** function can prevent damage to the edges of the screen by adjusting the white balance on the extreme left and right sides. Try Now

Password



The pictures may vary depending on the models.

This SMART TV requires a password to lock out channels and to reset its settings to the factory default.

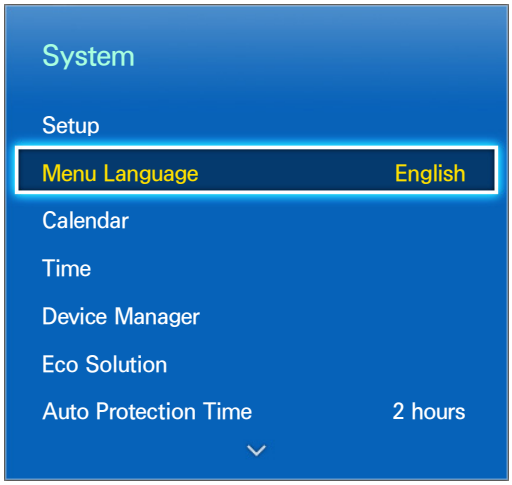
Change Password

Screen Menu > **System** > **Change PIN** Try Now

Change the TV's password.

1. Run **Change PIN** and then enter the current password in the password field. The default password is 0000.
2. Enter a new password and then enter it again to confirm it. The password change is complete.

Additional Features



The pictures may vary depending on the models.

There are many elements available for customizing the TV for individual user preferences.

Setup

When you turn the TV on for the first time, a sequence of on-screen prompts will assist in configuring basic settings. To turn on the TV, press the ⏻ button.

Setup is available only when the input source is set to TV. The default PIN is:"0-0-0-0".

During the setup, to return to the previous step, select Previous.

Before turning on the TV, make sure you have connected the TV to an antenna or cable connection.

If you want to configure a wired network connection during Setup, make sure you've connected a LAN cable to your TV. See page 15 for instructions. If you want to configure a wireless network connection during Setup, make sure your wireless modem or router is on and working.

1. Select the language to start the on screen setup.
2. Make the essential details, including channel source, network type.

If you have no network to link, please choose **No Network**, then choose **Next**.

3. Set auto tuning search options (**Aerial**/**Set-top box**).
4. Software update : Update the software to the last version.
5. Terms of Service Agreement:The Terms of Service Agreement screen appears.

   The screen can take a few seconds to display. The General Disclaimer screen appears. Select Agree. The Privacy policy screen appears. Select Agree.

   To use Smart Hub, you should select Agree for the Terms of Service Agreement.

6. Setup complete. Select **OK** to finish.

If You Want to Rerun Setup

Screen Menu > **System** > **Setup**

You should do Setup again at home although you did in shop.Before Setup starts, the PIN input screen displays. The default PIN is “0-0-0-0”.

If You Want to Reset This Feature...

Select **System** - **Setup** (Initial Setup).

Enter your 4 digit PIN number. The default PIN number is “0-0-0-0”. If you want to change the PIN number, use the Change PIN function. You should do Setup (Menu → System) again at home although you did in shop.

If you forget the PIN code, press the standard remote control buttons in the following sequence in Standby mode, which resets the PIN to “0-0-0-0”: MUTE M → 8 → 2 → 4 → POWER (on).

If you use Smart Touch Control, please press MUTE → +(Volume up) → RETURN → -(Volume down) → RETURN → +(Volume up) → RETURN in TV On model.

If You Want to Turn the Store Demo Mode On or Off

To set or unset Store Demo mode outside of Setup, press and release the Controller when the power is on. The Function menu screen appears. Push the Controller to the left (to MENU ( )) and hold for more than 5 seconds. The Store Demo mode is set. To cancel Store Demo, bring up the Function menu using the Controller, push the Controller to the right (to Source ( )) and hold for more than 5 seconds.

Calendar

Screen Menu > **System** > **Calendar**

Calendar function provides information such as solar calendar, lunar calendar,solar terms, heavenly stems, earthly branches, Chinese zodiac, western zodiac, holiday, etc. Among which,lunar calendar is used very often in our life. For example, all traditional Chinese festivals use lunar calendar, farming also needs to consult lunar calendar and solar terms, most Chinese people celebrate their birthdays according to lunar calendar, even when choosing big days such as wedding day, they would consult lunar calendar as well. Furthermore, the calendar is integrated with note function for you to edit important holiday information as a reminder.

- **Today** : Show current date.
- **Go To Date** : Go to the date you want.
- **Memo List** : Show the memo list.

  You can use the note in calendar to input important holiday information as a reminder.

1. In Calendar menu, press ▲/▼/◀/▶ button or drag on the touch pad to select the date you want.
2. Press the middle place of your remocon touch pad or ↵ button on ordinary remocon to open the note editor, then select the appropriate input method to edit the note.

Available input methods include PinYin (Simplified Chinese/Traditional Chinese), stroke (Simplified Chinese/Traditional Chinese), English (upper/lower case), digits and other symbols.

User can switch input method by using the button at the left down screen keyboard and delete previous entry by using "Clear"on screen keyboard button. (CHI:Chinese ENG:English)

- Key operation in abc/ABC input method :
  - Press corresponding number key one or more times to enter candidate character.
  - Cursor disappears in the editor to indicate pending status until 1 second has past or another key has been pressed.
  - The target character is selected when pending status ends.

To switch the word capitalization:

You can use the button"Caps" on screen keyboard to switch word capitalization.

If you just want use first word to be capital, you can use the ↑ on screen keyboard.

3. After editing, press Done button to save.

If time information has been set, the focus date is current date. If time information hasn't be set, the focus date is default date (Jan 1, 2013).

- If notes have been added, the note for present day pops up when the TV is turned on.
  - If there is no note, nothing pops up.
  - If On timer source is set to USB, nothing pops on.
  - The display time is 10 seconds.
  - If there is channel information, it will pop up after the Channel Bar disappears. If there is no channel information, it will pop up after user handles the onscreen menu for searching channels.
  - If the note is very long, it will display "..." at the end.
  - The number of note entries must not exceed 100. (Otherwise, "The note list is full, please delete some notes before adding more" message appears.)
  - There should be no more than 45 characters in each note.

Edit/Delete/Copy Memo List

In the main screen of Calendar, select the Memo List icon to show memo information. then press the Edit or Delete button, you can edit or delete the selected memo items. If you choose Delete All, you will delete all the memo items.

Select the memo item(s) you want, then press Copy. Edit the date you need, then you can finish copy.

Changing the Menu Language

Screen Menu > **System** > **Menu Language** Try Now

Select a menu language from the list.

Game Mode

Screen Menu > **System** > **General** > **Game Mode** Try Now

Game Mode optimizes the TV's settings for playing video games on a gaming console such as PlayStation™ or Xbox™. Read the following information before using Game Mode.

Precautions and Restrictions

- Game Mode cannot be used for normal TV viewing.
- Connect the gaming console before enabling Game Mode. Otherwise, the picture quality may suffer.
- Game Mode can result in some images shaking.
- Enabling Game Mode automatically sets **Picture Mode** to **Standard** and **Sound Mode** to **Movie**.
- Once finished, disconnect the gaming console and disable Game Mode before plugging in a different external device.

This function may be not available, depending on the regions.

BD Wise

Screen Menu > **System** > **General** > **BD Wise** Try Now

Connecting a Samsung DVD player, Blu-ray player, or home theatre system that supports BD Wise enables you to enjoy the richest colours and picture quality possible. Enabling BD Wise automatically optimizes the TV's resolution. This feature is only available when the external device is connected via an HDMI cable.

This function may be not available, depending on the models.

Menu Transparency

Screen Menu > **System** > **General** > **Menu Transparency** Try Now

Adjust the menu screen's transparency.

Sound Feedback

Screen Menu > **System** > **General** > **Sound Feedback** Try Now

Adjust the sound feedback volume or disable it entirely. Sound feedback is an audio cue that plays when you move the focus or make a selection.

Panel Lock

Screen Menu > **System** > **General** > **Panel Lock** Try Now

Lock or unlock all the keys on the front panel. The panel keys are located at the back of the TV and can be used to select options, to change the channel, and to adjust the volume.

Boot Logo

Screen Menu > **System** > **General** > **Boot Logo** Try Now

Enable/disable displaying the logo while the TV starts up.

Flash Adjustment

Screen Menu > **System** > **General** > **Anti Flicker** Try Now

Change the power frequency for the cable to stop the camera from flickering.

This option may not be available, depending on regions and modes.

Anynet+ (HDMI-CEC)

Screen Menu > **System** > **Anynet+ (HDMI-CEC)**

Allows you to control all connected Samsung devices that support anynet+ with your Samsung TV's remote control.

For details on set up options, refer to the "Anynet+ (HDMI-CEC)" instructions.

DivX® Video On Demand

Screen Menu > **System** > **DivX® Video On Demand** Try Now

Product registration is required to play back videos protected with DivX® DRM. Visit the DivX website and register the code displayed on the screen.

Smart Hub

Screen Menu > Smart Features > Open Smart Hub

Smart Hub is the core of Samsung Smart TV. It turns the TV into a multi-purpose entertainment center. With Smart Hub, viewers can surf the web, download applications, and stay in touch with family and friends through social networking services. In addition, you can enjoy Photos, Videos & Music files stored on external storage devices.

Press to launch Smart Hub. Choose a service using the icons displayed in the top part of the screen.

- Social

  (Depending on the regions)

  Watch the latest YouTube videos and you and your friends' video posts on Facebook and Twitter. You can also make video calls to friends by connecting the TV to a camera (sold separately).

- Apps

  Download and install applications such as WebBrowser.

- Photos, Videos & Music

  Play back photo, video, and music files from an external storage device or watch recorded videos.

To change the Smart Hub service panel, press ◀◀ / ▶▶ or drag left/right on the touch pad and select a service.

Terms & Conditions and Privacy Policy

Screen Menu > Smart Features > Terms & Conditions and Privacy Policy

You can view and set the terms or privacy policy for Smart Hub and various other service.

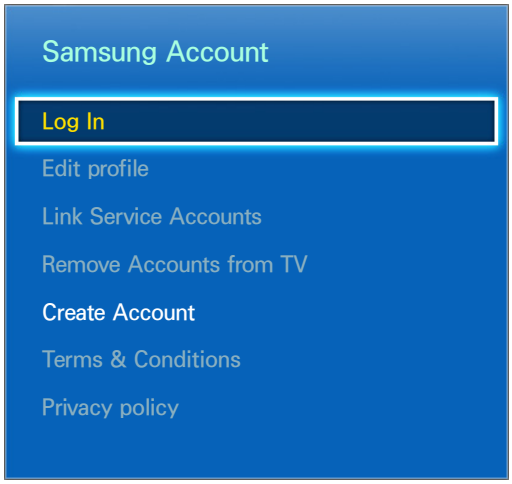
Starting Smart Hub

Screen Menu > Smart Features > Open Smart Hub

You can configure Smart Hub to automatically launch when the TV is turned on.

Samsung Account

A Samsung account allows you to get even more out of Smart Hub. You can create a Samsung account using your email address.



The pictures may vary depending on the models.

Creating a Samsung Account

Screen Menu > **Smart Features** > **Samsung Account** > **Create Account** > **Create a Samsung account**

From the login screen, select **Create Account** and then follow the on-screen instructions.

Once a Samsung account has been created, a confirmation email will be sent to the email address you entered as your ID. Open the confirmation email and click on the confirmation button to finalize the Samsung account setup process.

Creating a Samsung Account Using a Facebook Account

(May not be available, depending on your regions and country.)

Screen Menu > **Smart Features** > **Samsung Account** > **Create Account** > **Create a Samsung account using Facebook**

A Facebook account makes it easier to create a Samsung account. When a Samsung account is created using a Facebook account, the Facebook account is also registered on the TV.

Terms and Conditions, Privacy Policy

Screen Menu > **Smart Features** > **Samsung Account**

Carefully read the terms and conditions to use Samsung Account, and determine whether or not to agree to them. Users cannot use Samsung Account fully unless they agree to them. However, you can only view the entire terms and conditions after signing in with your Samsung account and you can use your Samsung Account after agreeing to the terms and conditions.

Logging In

Screen Menu > **Smart Features** > **Samsung Account** > **Log In**

Use your Samsung account to log into the Smart Hub. Enter your ID and password and then select **Log In**.

The **Remember my password** option lets you login without having to enter your password each time. Check this option to enable it. Check the **Sign me in automatically** option if you want to log into Smart Hub automatically.

If you forgot your password, select **Reset Password** to receive the password resetting instructions via email.

Linking a Samsung Account to Other Accounts

Screen Menu > **Smart Features** > **Samsung Account** > **Link Service Accounts**

Linking your Samsung account to other accounts lets you automatically log into your linked accounts when you log into your Samsung account. For example, you can download the Facebook application and link your Facebook account to your Samsung account. Logging into your Samsung account then automatically logs you into your Facebook account as well.

Log into your Samsung account and select to view a list of applications that require login information.

- **Register Service Account**: Select an application, select **Register**, and then provide the ID and password.
- **Edit**: It is possible to change a registered account. Select an application, select **Edit**, and enter the ID and password for the new account.
- **Remove**: Select an application to which an account has been registered and then select **Deregister**.

Remove Accounts From TV

Screen Menu > **Smart Features** > **Samsung Account** > **Remove Accounts from TV**

Deactivate the Samsung account currently logged in on the TV.

Managing Accounts

Screen Menu > **Smart Features** > **Samsung Account**

Using the **Samsung Account** menu, you can manage your Samsung Account. You can only use this function after signing in with your Samsung account.

- **Edit profile** : You can change the basic user information and register your photo and credit card information.
- **Remove Accounts from TV**: The Samsung account used to sign into the Smart Hub is automatically saved on the TV. You can delete your account information from among the saved accounts on the TV.

Reset Smart Hub

Screen Menu > Smart Features > Reset Smart Hub

It is possible to remove Samsung accounts and everything linked to them, including apps, from the TV. Enter the password when accessing this menu. After resetting Smart Hub, you will need to read and agree to the service agreement again before using Smart Hub. Run Setup (System > Setup) again.

Searching

Users can search many apps and their contents on the TV as well as the Web.

Keyword Search

Press the HISTORY/SEARCH button. The list appears at the bottom of the screen. the screen. Press the HISTORY/SEARCH button again. The keypad appears on the screen. Enter search criteria using the on-screen keyboard that appears, and then select Done. A list of search results appears. Select a desired item from a list of search results. The selected item's page appears.

Setting Search Scope

Press the ⚙ on the Search result screen. User can set up the desired search range in the scope list.

Status and Notification

A notification message window appears at the top of the screen when important messages concerning application updates and Samsung account logins are available. This message window notifies the user of the TV's operating status.

Show Status and Notification Banner

<For LED F5300 - F6300, PDP F5200 series>

Press the STATUS button. The status and notification banner is shown at the top of the screen.

<For LED F6400 - F6800, PDP F5500 Series>

Press the MORE button on the Smart Touch Control and then select STATUS on the Virtual Remote panel. The status and notification banner is shown at the top of the screen.

Voice Recognition & Motion Control Configuration

(May not be available, depending on your regions and country.)

Enable/disable the status and notification banner's Motion Control functions.

Samsung Account Configuration

Select **My Account** from the notification banner to manage your Samsung account.

Network Configuration

Select Network Settings from the notification banner to configure the network.

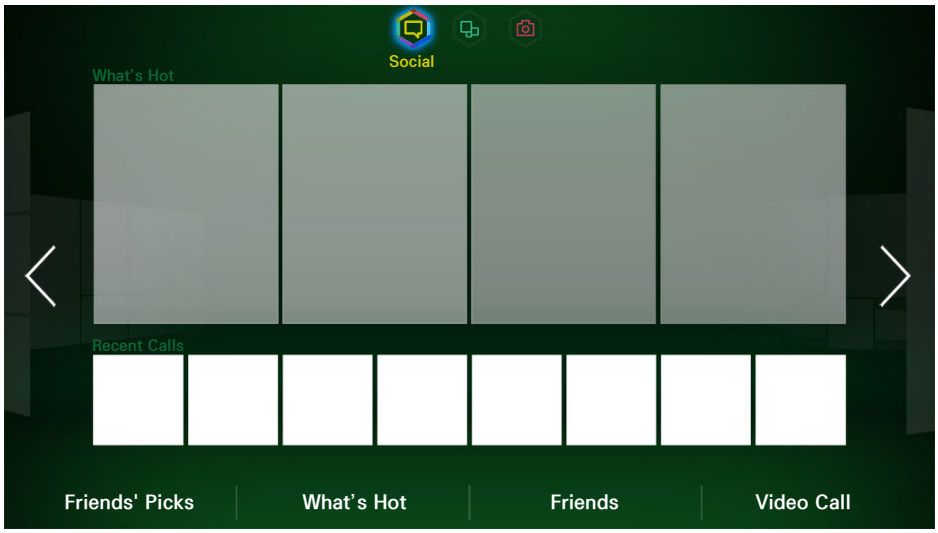
Notification

If you missed any alarm messages displayed on the TV, you can view the alarm messages through the **Notification** menu. You can also check notifications from **Notification** (**Smart Features** > **Notification**). However, the **Notification** item is only available when you have unread notifications. Try Now

Selecting a notification from the list allows you to perform corresponding actions with ease. To delete all notifications, select **Delete All**.

Selecting **Service Notice** launches WebBrowser to display the notification webpage of the Samsung website.

Social



The function may be not available depending on the regions.

The pictures may vary depending on the regions or models.

Watch the latest YouTube videos and you and your friends' video posts on Facebook and Twitter. You can also make video calls to friends by connecting the TV to a camera (sold separately). Certain applications need to be installed on the TV in order to use the Social feature. You will also need to log into your Samsung account and have your social media accounts already linked to your Samsung account.

Social Settings

Screen Menu > **Smart Features** > **Social Settings**

Checking the Application

Certain applications need to be installed on the TV in order to use the Social feature. If a selected application has not been installed on your TV, you will need to install it first. For more information on installing applications, refer to "Samsung Apps".

Connecting a Service to a Samsung Account

Social service accounts need to be linked to a user's Samsung account first. If you do not have a social service account, create one by visiting the website of that service.

Watching Videos

Select **Friends' Pick** or **What's Hot** at the bottom of the Social screen to display a list of videos. Select a video from the list to view its information and then select Play.

Friend Profile

(Only available in Hongkong area)

Select **Friends** at the bottom of the **Social** screen to display a list of Facebook and Twitter friends. Select a friend from the list. The selected friend's profile containing his/her basic information and posts is displayed.

Select a friend to call

(Only available in Hongkong area)

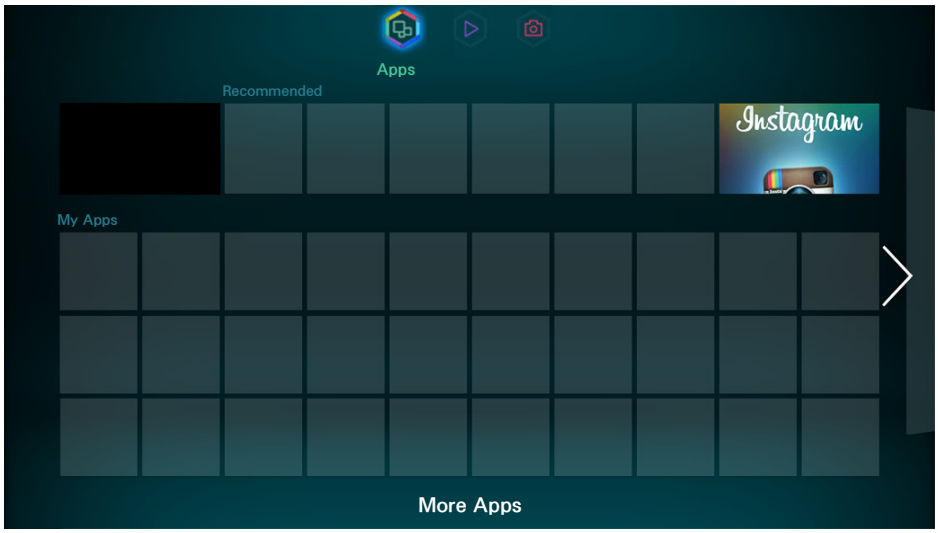
Select **Video Call** at the bottom of the **Social** screen. This launches Skype and displays a list of friends. Select a friend to call.

Filters

(Only available in Hongkong area)

Log in to a Samsung account to use this function. Select either **Friends' Picks** or **Friends** and **Video Call** on the **Social** screen. Use the filter option at the top of the screen to rearrange the list. Select a filter. However, this option cannot be used in the **What's Hot** list.

Apps



The pictures may vary depending on the models/areas.

Samsung Apps offers an extensive collection of free and paid news, sports, weather, and gaming content you can directly download to and enjoy on your TV. First, check the network and make sure the TV is connected to the Internet. Your TV needs to be connected to the Internet in order to use Apps.

Precautions

- Due to the product characteristics featured on the Samsung Smart Hub, as well as limitations in available content, certain features, applications, and services may not be available on all devices or in all territories. Some Smart Hub features may also require additional peripheral devices or membership fees. Visit http://www.samsung.com for more information on specific device information and content availability. Services and content availability are subject to change without prior notice.
- Samsung Electronics takes no legal responsibility for any interruption of the Smart Hub service caused by the service provider for any reason.
- Application services may be provided in English only and available content may vary, depending on the country.
- For more information about applications, visit the applicable service provider's website.
- An unstable Internet connection may cause delays or interruptions. In addition, applications may terminate automatically depending on the network environment. If this occurs, check your Internet connection and try again.
- Application services and updates may become unavailable.
- Application content is subject to change by the service provider without prior notice.
- The service details may vary depending on the user's firmware version.
- The application usage method may vary with future versions of the application. If this is the case, run the application's tutorial or visit the service provider's website.
- In some applications, multi-tasking is not supported.

Installing Standard Applications

Launching Smart Hub for the first time and loading the **Apps** screen, the TV is automatically downloads and installs the basic applications that correspond to the network your TV is connected to. The types of basic applications may vary depending on your location.

Launching an Application

Navigate to the **Smart Hub**'s Apps screen and then select **More Apps** screen located at the bottom of the screen. The list of applications currently installed on your TV is displayed. From this list, select the application you want to launch. Select View Mode (right top of the screen) to rearrange the list of downloaded applications by the **Date Downloaded**, **Recently Opened**, or **Title**.

Samsung Apps

Samsung Apps offers various free and paid news, sports, weather, and gaming applications. Samsung Apps lets you search for applications and install them directly on your TV. Read and agree to the terms and conditions of use and then browse through the categories or directly search for applications.
Try Now

Searching for Apps

Search for applications by name. On the **Samsung Apps** screen, select the **Search Samsung Apps** to bring up the keypad. Enter the application's name and then select **Done**.

Installing Applications

Select the application you wish to install to bring up a screen with detailed information about that application. Select **Download** to install the selected application. Select **Share** to let others know about the selected application. Paid applications, however, must be purchased before you can install them. Visit the Samsung Apps TV website at http://tv.samsungapps.com and recharge your account with App Cash before purchasing paid applications.

Apps Management

You can customise the My Apps screen. You can also manage installed applications and configure application update settings.

Edit My Apps

Navigate to **More Apps** screen, select **Options**, and then select **Edit My Apps**. You can customize the My Apps screen.

Change Order

From the **Edit My Apps** screen, select the applications you wish to rearrange, change the order, and then press the touch pad.

Removing Applications

Remove unused applications from the My Apps' application list. Removed applications are moved to the downloaded app list.

From the **Edit My Apps** screen, select the applications you wish to remove and then move them to the first or last row of the My Apps list. An 'X' will appear at the top or bottom of the icons of the selected applications. Move the applications in the direction of the 'X'. A popup window will appear. Select **Yes** from the popup window to remove the selected applications from the My Apps list.

From the **Edit My Apps** screen, select **Delete All** to remove all applications from the My Apps list.

Adding Applications

Applications that have been installed on the TV but do not show up in the My Apps list can be added to the list.

Select the applications you wish to add from the downloaded apps list at the top of the **Edit My Apps** screen. Selected apps are added to the My Apps list.

Deleting Applications

Delete applications installed on your TV. Deleting an application deletes all data associated with that application. Navigate to **More Apps** screen, select **Options**, and then select **Delete**. A popup window appears. select **Yes**. A check box appears on the selected application icons. Select **Delete**. Applications in gray cannot be deleted.

You can reinstall deleted applications for free from Samsung Apps.

Managing Application Folders

Create folders and manage applications by group. Navigate to **More Apps** screen, select **Options**, and then **New Folder**. Enter a name for the new folder.

Select **Options** to rename the folder or move applications to that folder.

Application Lock/Unlock

When the application require to update to the latest version, select **Apps** and then select **More Apps**. On the **More Apps** screen, select **Update Apps**, and then select application from the list. The application starts updating to the latest version. However, **Update Apps** appears on the screen only when the update is required.

Fitness

Fitness is an application that helps you stay fit. Create a profile, set up an exercise plan, and start exercising according to a structured regimen. Read and agree to the terms and conditions before using Fitness. Try Now

⚠ **Do a warm-up or some stretches before exercising. Users must stop exercising immediately if they experience pain, or become dizzy, exhausted or short of breath.**

Web Browser

Web Browser is a web-browsing application. Using Web Browser, you can browse the Internet on your TV as you would on your computer and even watch TV while you surf the web. The browsing experience, however, may not be the same as it is on your computer. Use a keyboard and mouse for a more convenient web browsing experience. Try Now

Social Networks

Share your thoughts and comments about a programme on the aerial through social networking services. Social TV displays social network services on a single screen. You can even post messages and comments in the same manner as you would using a computer. You must first link your Samsung account to the respective SNS accounts before you can access them using Social TV.

For more information about using the service, visit the application's website.

Linking Service Accounts

Link your SNS to your Samsung account. Launch Social TV select an SNS, and then register the account you have with that SNS.

Once linked, you can use the buttons at the bottom of the screen to access the registered SNS. You can update your feed, post comments, and even change the viewing mode.

Apps Settings

Screen Menu > **Smart Features** > **Apps Settings** Try Now

Configure the apps installed on your TV.

Auto Ticker

Screen Menu > **Smart Features** > **Apps Settings** > **Auto Ticker**

Configure selected tickers to display automatically when the TV is turned on. A ticker is a service that displays stock values, news, and weather updates on the screen in real-time. Enabling the Ticker service brings you up-to-the-minute information while you watch TV. From the **Auto Ticker** list, select the applications to run. If a selected application has not been installed on your TV, you will need to install it first.

Push Notifications

Screen Menu > **Smart Features** > **Apps Settings** > **Push Notification Settings**

Enable/disable push notifications from applications. **Push Notification Settings** are displayed on the screen as you watch TV. You can then select these notifications to get more information.

Channel-Bound Apps

Screen Menu > **Smart Features** > **Apps Settings** > **Channel-Bound Apps**

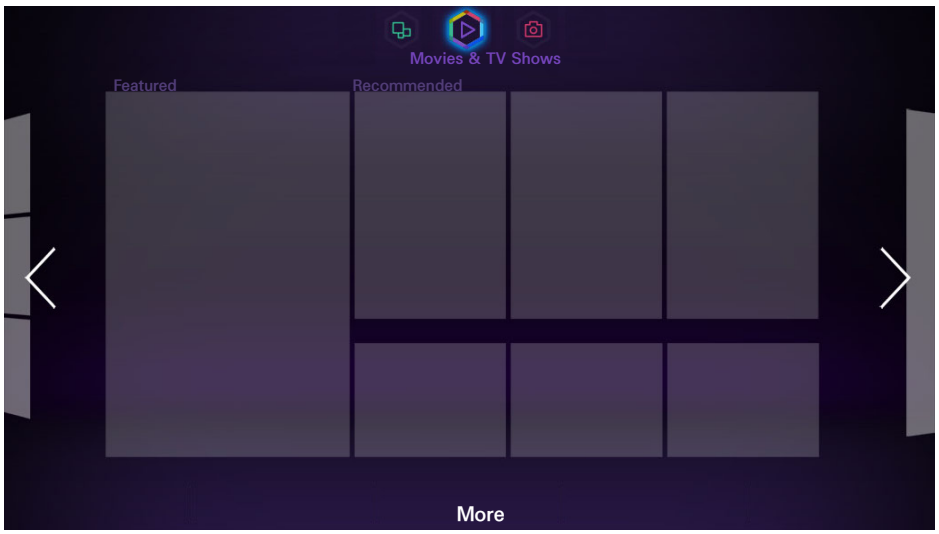
Channel-Bound Apps can be used when watching a channel that supports applications for the current programme's data services.

Properties

Screen Menu > **Smart Features** > **Apps Settings** > **Properties**

Users can view the Apps version, the TV's serial number. In addition, you can check the TV's total and available memory capacity.

Movies & TV Shows



The displayed image may differ depending on the model.

Use the **Movies & TV Shows** feature to purchase and watch movies and TV shows without a DVD/Bluray player. **Movies & TV Shows** is a content aggregator that lets users enjoy movies and TV shows offered by various applications. However, not all the **Movies & TV Shows** options may be available depending on the content you are trying to access or your region.

Open Smart Hub and move to **Movies & TV Shows**.

This service or some of functions of it may be not available in some countries or region.

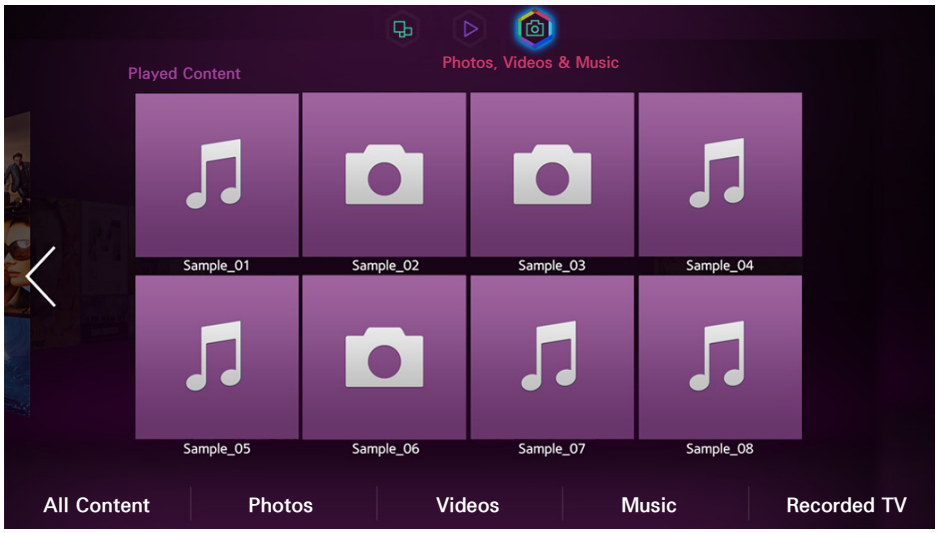
Custom Recommendations List

If you are using **Movies & TV Shows** for the first time or you have not logged into your Samsung account, new and popular movies and TV shows will be shown in the **Recommendation** list. Try the custom recommendations list, which makes custom recommendations based on the contents accessed through **Movies & TV Shows**.

Watching Content

1. Select a movie or TV show. Detailed information about your selection appears on the screen.
2. Select **Watch Now**. A list of applications offering the selected content is shown.
3. Compare the price, picture quality, provider, rental/purchase option, and other viewing options and select the application that suits you best. Detailed information about the selected application is shown. If the selected application has not been installed on the TV, you can install it by launching **Samsung Apps**.
4. Purchase the content from the detailed application info screen and then launch it. The actual purchasing process may vary depending on the application. Some applications may require a login and/or ask you to enter your payment information.

Photos, Videos & Music



Open Smart Hub and select **Photos, Videos & Music**.

Enjoy photo, video and music files from an external storage device directly on your TV. Back up important files before connecting an external storage device to the TV. Samsung will not be held responsible for damaged or lost files.

Pictures in this part are just for reference, various depending on the models and regions.

Restrictions

- Supports MSC (Mass Storage Class) USB devices only. MSC is a class designation for mass storage devices. Types of MSC devices include external hard drives, flash card readers, and digital cameras. (USB hubs are not supported.) These kinds of devices must be connected directly to the TV's USB port. The TV may not be able to recognise the USB device or read the files on the device if it is connected to the TV via a USB extension cable. Do not disconnect the USB device while transferring files.
- When connecting an external hard drive, use the USB (HDD) port. We recommend that you use an external hard drive with its own power adapter.
- Certain digital cameras and audio devices may not be compatible with the TV.
- If there are multiple USB devices connected to the TV, the TV might not be able to recognise some or all the devices. USB devices that use high-power input (500mA or 5V) may not be supported.
- Supported file systems are FAT, exFAT and NTFS.
- Sorting the files in Folder view mode can display up to 1,000 files per folder. If the USB device contains more than 8,000 files and folders, however, some files and folders might not be accessible.

Supported File Formats

This TV is capable of playing back the following types of files. For more information, refer to the "Subtitle and Media Contents file formats, and Codec" section.

- Photos: bmp, jpg, mpo, png
- Music: aac, flac, m4a, mpa, mp3, ogg, wma
- Video: 3gp, avi, asf, flv, m2ts, mkv, mov, mp4, mpg, mts, svi, ts, tp, trp, vob, vro, webm, wmv, rmvb
- Subtitles: ass, psb, smi, srt, ssa, sub, ttxt, txt

With .avi, .mkv, and .mp4 files, the TV supports embedded subtitles.

Certain files, depending on how they were encoded, may not play on the TV.

USB Device Connection

Plug the USB device into the TV's USB port. Play back stored media files as follows:

- Connecting a USB device while the TV is turned on displays a popup window. Select the type of media you want to play.
- Move to **Photos, Videos & Music** at the top of the Smart Hub screen. Select the type of media you want to play and then the USB device that contains the files.
- Select the USB device from the **Source** screen. A popup window will appear. Select the type of media you want to play.

USB Device Removal

Press **SOURCE** to access the **Source** screen. Select the USB device you want to remove and then press **TOOLS** in **MORE** menu by pressing it on remocon. Select **Disconnect USB Device** from the list to safely remove the selected USB device.

Watching Recorded Programmes

Select **Recorded TV** at the bottom of the screen to launch **Recorded TV**.

Playing all the Content on a Storage Device

You can play **All Content** saved on a storage device regardless of the type of content (**Photos, Videos & Music**).

Select the **All Content** on the **Photos, Videos & Music** screen, You can play all the content saved on a storage device regardless of the type of content (**Photos, Videos & Music**).

Clearing the Photos, Videos & Music Screen

Screen Menu > **Smart Features** > **Clear viewing history**

The **Photos, Videos & Music** screen displays thumbnails of recently-played media files. Selecting a thumbnail plays the media file.

Using Networked External Storage Devices

This TV can directly display media files from web storage devices and computers and DLNA-enabled devices connected to the TV over a network. To display the media files on an external storage device, the device must support DLNA and be connected to the same network as the TV.

For example, you can display the media files on your Smartphone or web storage in the following ways:

- Send a media playback request to the TV from a Smartphone or computer.
- Establish a link between the TV and a computer/Smartphone/web storage and play the media files.
- Use a Smartphone to send a request to the TV to play the media files stored on a computer or use a computer to request playing the media files stored on a Smartphone.
- Log into your Samsung account and play the media files stored on your web storage.

  Certain media files stored on a networked external storage device may not play on the TV, depending on their resolution and format. In addition, certain functions may not be available.

  Certain files may not play smoothly. If this is the case, use a USB storage device.

Move to **Photos, Videos & Music** at the top of the Smart Hub screen. Select the media type and then the device where the media file is located. The folder and file list of the selected external storage device are shown.

Allowing DLNA Device Connections

Screen Menu > **Network** > **AllShare Settings** > **Content Sharing**

Select Content Sharing, and a list of devices connected to the same network as the TV appears. Select a device to connect it to the TV. Select a device to allow it to connect to the TV.

Allow an access from a device connected to the same network as the TV. You can only play media files from devices that have been allowed to connect to the TV. This function is available for all DLNA DMC devices. Alternatively, you can send a media playback request from an external device that has not yet been allowed to connect to the TV and then accept the connection when prompted.

AllShare

AllShare makes it easy to retrieve and enjoy media files from computers and DLNA-enabled devices. However, computers need to be installed with AllShare PC and mobile devices need to support AllShare. For more information, visit the Samsung Content & Service portal (http://link.samsung.com).

You may experience compatibility issues when attempting to play media files via a third-party DLNA server.

Exporting Contents

From the **Options** list located at the top of the screen, select **Send**. Select all the contents files you wish to export and then select **Send**. This exports the selected files to a different storage device. Possible file export pairings are as follows:

Source Device	Target Device
USB Device	DLNA Device, SugarSync, Mobile Device, Dropbox
Camera	DLNA Device
DLNA Device	USB Device
SugarSync, Dropbox	USB Device
Mobile Device	USB Device

Video Playback

Select the video file from the list or press ▶ to play video. Use the remote control or the on-screen buttons to control the video playback. Tap the touchpad or press the regular remote's ↵ button to display the screen control buttons. Press RETURN to hide them.To stop playing the file, press ■ or RETURN.

Changing the view mode

On the file list screen, select **View** on the top right of the screen and choose a category. The file list is sorted by the chosen category.

Playlist Creation

From the **Options** list located at the top of the screen, select **Play Selected**, specify all the video files you wish to play, and then select **Play**. This creates a playlist. If the list is displayed in Folder view mode, only the files contained in the current folder can be selected. To select files from other folders, change the view mode.

Select All Video Files

From the list at the top of the screen, select **Select All**. Deselect All Video Files select all the video files you wish to deselect and select **Deselect All**. This cancels all selected video files.

Cancel : Cancel the selection you do.

Opening a Different File

- Select the ⏮/⏭ on-screen button.
- Select the **Search** on-screen button and then select **Search Titles**.

Video Scanning

- Press ◀ / ▶. This scans through the file in 10-second increments.
- Press ◀◀ / ▶▶. This changes the playback speed by up to 300%. To restore normal playback speed, press ▶. Alternatively, pause the video and then press ▶▶ to reduce the playback speed (1/8 normal, 1/4 normal, 1/2 normal). Slow playback doesn't support audio and is available in the forward direction only.
- Press ❚❚ to pause the screen and then ❚❚ to scan through the paused video in 1-frame increments. Audio is not supported while the video is paused.
- Select the **Search** on-screen button and then select **Search Scene**. This will take you to a scene in the video. If the index information is damaged or unsupported, user will not be able to use the **Search Scene** function.
- Select the **Search** on-screen button and then select **Search Time Bar**. This will take you to a time frame in the video.

  Select the Search on-screen button and then select **Search Titles**. This will take you to select videos by titles in the play list.
- Select the ⏮ on-screen button. This plays the video from the beginning. Press ⏭ to play the next video in the play list.

Show Subtitles

If the external storage device contains a subtitle file with the same name as the video file being played, you can choose to display subtitles on the screen. Select the **Settings** on-screen button and then select **Subtitle Settings** to show subtitles.

If the letters appear corrupted, try changing the encoding setting. If the subtitles do not match the video, adjust the sync. If the subtitles are too small, increase the font size.

This function may not be available, depending on the models or areas.

Additional Video Playback Settings

- **Search**

  You can search the video by 3 modes(Search Scene/Search Titles/Search Time Bar).

- **Repeat**

  Select the Repeat Mode on-screen button. This changes the repeat mode. Repeat One repeats the current file only, whereas Repeat All repeats all files contained in the folder.

- **Picture Size**

  Select Picture Size, you can choose the picture size.

- **Rotate**

  You can rotate the picture.

- **Picture Mode**

  Select the Settings on-screen button and then select Picture Mode. Select a picture mode.

- **Sound Mode**

  Select the Settings on-screen button and then select Sound Mode. Select a sound mode.

- **Audio Language**

  Select the Settings on-screen button and then select Audio Language. Select an audio language. However, this option is only available with streaming videos that support multiple audio formats.

- **Information**

  Select the Settings on-screen button and then select Information to view detailed information about the current video.

- **Receiver**

  Select the Receiver button and then power on the AV receiver.

  If you have no AV receiver connecting to TV, this function cannot be available.

- **Snapshot**

  (May not be available, depending on your regions and country.)

  Select Snapshot, you can capture your video picture and upload to your Sina Weibo account.

  – Save

    Save the picture you captured.

  – Capture

    Capture the picture during video is playing.

  – Weibo Share

    You can capture your video picture and upload to your Sina Weibo account.

You must log in your Samsung Account and link your Sina Weibo account.

Music Playback

Select the music file from the list or press ► to play music. To stop playing the file, press ■ or RETURN.

Changing the view mode

On the file list screen, select **View** on the top right of the screen and choose a category. The file list is sorted by the chosen category.

Playlist Creation

From the **Options** list located at the top of the screen, select **Play Selected**, specify all the music files you want to play, and then select **Play**. This creates a playlist. If the list is displayed in Folder view mode, only the files contained in the current folder can be selected. To select files from other folders, change the view mode.

Select All Music Files

From the it list at the top of the screen, select **Select All**. Deselect All Music Files select all the music files you wish to deselect and select **Deselect**. This cancels all selected music files.

Cancel : Cancel the selection you do.

Music Scanning

- Press ◄◄ / ►►. Scan 10 seconds backward or forward.
- Press II / ►. This pauses/plays the currently playing music file.

Opening a Different File

- Select the ⏭ on-screen button to play the next music in the play list.
- Select the ⏮ on-screen button. This plays the music from the beginning.

Additional Music Playback Settings

- **Repeat**

  Select the **Repeat** on-screen button. This changes the repeat mode. **One Song** repeats the current file only, whereas **All** repeats all files contained in the playlist.

- **Shuffle**

  Select the **On** on-screen button. Choose between normal and random play.

- **Receiver**

  Select the **Receiver** button and then power on the AV receiver.

- **Sound Mode** (Standard/Music/Movie/Clear Voice/Amplify)

  Select the **Sound Mode** on-screen button. Select a sound mode.

- **Information**

  Select the Virtual Remote panel's **INFO** button from the playlist to view detailed information about the selected file.

- **Additional Function**

  (May not be available, depending on your regions and country.)

  Lyric Display : You can see lyrics when playing the music。

  Lyric may display abnormally because of the ill-formed.lrc file.

  Automatic Download : You can set it On or Off.

  Search Lyric : You can search music by lyric. It need network link.

  Search Album Cover : You can search music by album cover. It need network link.

- **Share**

  (May not be available, depending on your regions and country.)

  Select **Share**, you can upload your music files to your Sina Weibo account.

  You must log in your Samsung Account and link your Sina Weibo account.

Photo Playback

Select a photo from the list to display it on the screen. Tap the touchpad or press the regular remote's ↵ button to display the screen control buttons. Press RETURN to hide them.

To stop playing the file, press ■ or RETURN.

Changing the view mode

On the file list screen, select **View** on the top right of the screen and choose a category. The file list is sorted by the chosen category.

Send

You can press it on the top of screen. It lets you send your photo files with other device.

Slide show

- From the **Options** list located at the top of the screen, select **Slide Show**. You can view all photos in the list as a slide show.
- Press ► from the list.
- Press ► or select the **Start Slide Show** on-screen button to begin the slide show.

From the Option list located at the top of the screen, select **Play Selected**, then you can choose the pictures you like. Select **Play** to play slide show.

Slide show Settings

- **Speed**: Press ◄ / ► or select the **Slideshow Settings** on-screen button and then select **Speed**. There are 3 kind of speed mode to select : Slow, Normal, and Fast.
- **Effects**: Select the **Slideshow Settings** on-screen button and then select **Effects**. (Blind/Spiral/Checker/Linear/Stairs/Wipe/Random/None)

Playlist Creation

From the **Options** list located at the top of the screen, select **Play Selected**, specify all the photos you want to play, and then select **Play**. This creates a playlist. If the list is displayed in Folder view mode, only the files contained in the current folder can be selected. To select files from other folders, change the view mode.

Selected All Photos

From the list at the top of the screen, select **Select All**. **Deselect All** Photos select all the photo files you wish to deselect and select **Deselect All**. This cancels all selected photo files.

Cancel : Cancel the selection you do.

Opening a Different File

- Press the middle place of your remocon touch pad button choose ◀ / ▶ to play the previous or next photo file during slide showing.
- Press II / ► to stop or play slide show.

Background Music

Enable music to play in the background during a slide show. However, all music files must be located on the same storage device.

Select the **Background Music** on-screen button while a photo is displayed on the screen or a slideshow is in progress. Select the music files you want to listen to and then **Play**. To play the files in a random order, select **Shuffle**.

Mini Player

When viewing photos with background music, you can control the music.

Select Background Music from among the on-screen control buttons and select Mini Player.

You can pause playback or skip to the previous or next song.

If you want to quit Mini Player, please press Return on the remocon.

Additional Photo Playback Settings

- **Zoom**: Select the **Zoom** on-screen button. Zoom in by up to a factor of 2, a factor of 4 or Original.
- **Rotate**: Select the **Rotate** on-screen button. This rotates the photo.
- **Receiver**: Select the **Receiver** button and then power on the AV receiver.
- **Picture Mode**: Select the **Settings** on-screen button and then select **Picture Mode**. Select a picture mode.
- **Sound Mode**: Select the **Settings** on-screen button and then select **Sound Mode**. Select a sound mode.
- **Information**: Select the **Settings** on-screen button and then select **Information** to view detailed information about the current video.
- **Share** : Select **Share**, you can upload your photo files to your Sina Weibo account.

You must log in your Samsung Account and link your Sina Weibo account.(May not be available, depending on your regions and country.)

Anynet+ (HDMI-CEC)

This SMART TV is enabled with Anynet+ (HDMI-CEC), a feature that makes it possible to control Samsung external devices connected to the TV with ease. With Anynet+ (HDMI-CEC), you can use the TV remote control to operate all compatible Samsung devices that are connected to the TV. However, Anynet+ (HDMI-CEC) only works with the remote control and not with the panel keys.

Precautions

- This feature does not support other manufacturer's products.
- Anynet+ devices must be connected to the TV using an HDMI cable. Some HDMI cables may not support Anynet+ (HDMI-CEC). In this case, you will need to replace the HDMI cable.
- The TV remote control may not function under certain circumstances. In this case, select the Anynet+ device again.
- Anynet+ (HDMI-CEC) only works with external devices that support Anynet+ (HDMI-CEC) and only when those devices are either in standby mode or turned on.
- Anynet+ (HDMI-CEC) can control up to 12 compatible external devices (up to 3 of the same type). With home theatre systems, however, the number of systems that can be controlled is limited to one.
- A home theatre system that has been connected to the TV using an HDMI cable and an optical cable supports 2-channel audio only. However, the home theatre is capable of supporting 5.1-channel audio from digital broadcasts.
- To listen to 5.1-channel audio from an external device, connect the device to the TV via an HDMI cable and the device's digital audio output connector directly to the home theatre system.

Anynet+ (HDMI-CEC) Setup

Screen Menu > **System** > **Anynet+ (HDMI-CEC)** Try Now

Enable/disable Anynet+ (HDMI-CEC).

- **Anynet+ (HDMI-CEC)**

  Enables/disables Anynet+ (HDMI-CEC). Disabling this turns off all Anynet+-related features. Try Now

- **Auto Turn Off**

  Turns off external devices when the TV is turned off. Some devices do not support this option. Try Now

- **Receiver**

  Listen to audio through an AV receiver instead of the TV speakers. This option is only available when there is an AV receiver connected to the TV. Try Now

Using the Anynet+ (HDMI-CEC)

You can operate external devices using just the TV remote control.

Switching between Anynet+ Devices

1. Select the Virtual Remote panel's or the regular remote's **TOOLS** button to display the list. Select **Anynet+ (HDMI-CEC)** from the list. If there is No Device appearing on the screen ,select **Refresh**, a device selection screen will appear.
2. Select a device and wait for the switch to take place. This process may take up to 2 minutes to complete and cannot be cancelled when started.

   Alternatively, switch to a different Anynet+ (HDMI-CEC) device by selecting its name from the **Source** list. However, Anynet+ (HDMI-CEC) cannot be used if a connected input connector is selected.

Anynet+ (HDMI-CEC) Device Menu

Once the TV has switched over to the selected device, you can access the device's menu using the TV's remote control. Select the Virtual Remote panel's or the regular remote's **TOOLS** button to display the list. Select **Anynet+ (HDMI-CEC)** from the list. The following Anynet+ device options will appear. The displayed Anynet+ device options may vary depending on the external device.

- **View TV**

  Select this to switch the remote control mode to the TV.

- **Device List**

  Displays a list of Anynet+ (HDMI-CEC) devices connected to the TV. To change a device, select a desired device in the list.

- (Connected Device) **Menu**

  Display the menu of the connected device. If the target device is a DVD player, the DVD menu is shown.

- (Connected Device) **Tools**

  Display a list of frequently-used functions that are available for the device. If the target device is a DVD player, the DVD playback menu is shown. Some external devices may not support this option.

- (Connected Device) **Title Menu**

  Display the connected device's title menu. If the target device is a DVD player, the DVD title menu is shown. Some external devices may not support this option.

- **Receiver**

  Listen to audio from the connected external device through an AV receiver, such as a home theatre system, instead of the TV speakers. This option is only available when there is an AV receiver connected to the TV. The menu may not be shown with receivers that support audio only.

- **Speaker Select**

  Display the speaker list. Select External Speaker/TV Speaker/Receiver/Samsung Audio Device. Make sure the device to be chose except TV Speaker has been connected to the TV.

- **Picture Mode**

  Display the Picture Mode list. Select Dynamic/Standard/Natural/Movie

- **Picture Size**

  Display the Picture Size list. Select 16:9/Wide Zoom/Zoom/4:3/Screen Fit/Smart View1/Smart View2.

- **Sleep Timer**

  Turn on or off the Sleep Timer.

- **Snapshot tool**

  Select Snapshot tool and press on screen button Capture to take a Snapshot of the screen in real-time. You can select Save to save the picture to the USB device which has been connected to the TV or share it to the internet by selecting Weibo Share.

ARC

ARC enables digital sound to be output using just an HDMI cable. However, ARC is only available with AV receivers that support ARC.

To use ARC, enable it from the Anynet+ (HDMI-CEC) device menu **Receiver**.

Mirroring Mobile Device Screens on the TV

This TV is capable of displaying mobile device screens. You can use the following features to enjoy video, photo, and music files from mobile devices directly on your TV.

- Use the **Screen Mirroring** menu to display a mobile device's screen on the TV.

Screen Mirroring

Screen Menu > **Network** > **AllShare Settings** > **Screen Mirroring**

Displays mobile device screens on your TV wirelessly. However, **Screen Mirroring** is only available with mobile devices that support AllShare Cast. For more information, visit the mobile device manufacturer's website.

Depending on the network condition, screen or voice dropouts may occur when the **Screen Mirroring** function is running.

Mobile Device Connection

Run **Screen Mirroring** (**Network** > **AllShare Settings** > **Screen Mirroring**) function. Alternatively, press the SOURCE button and select **Screen Mirroring** from the source list. After running the Screen Mirroring, run Mirroring function on the mobile device. The TV will connect with the mobile device, and user can view the connected mobile device's screen on the TV.

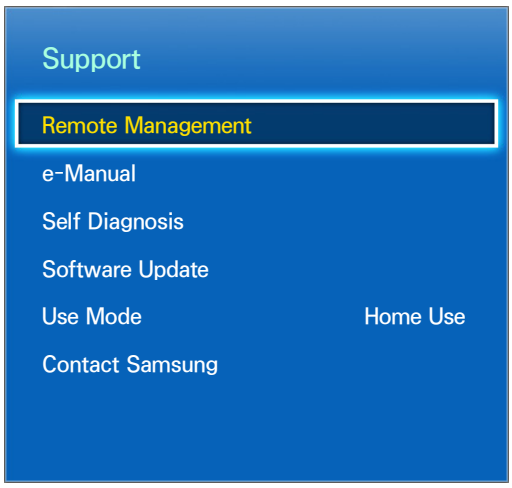
Support

(The pictures may vary depending on the models)

The TV has several built-in systems designed for user and TV system support.

Remote Management

Screen Menu > **Support** > **Remote Management**



If you need assistance with your TV, you can use this feature to let Samsung Electronics diagnose your TV remotely. You will need to read and agree to the service agreement before using this feature. A Samsung Electronics technician will then diagnose, repair, and update your TV remotely. However, these features are only available when your TV is connected to the Internet.

What is Remote Support?

Samsung Remote Support service offers you one-on-one support with a Samsung Technician who can remotely.

- **Diagnose** your TV
- **Adjust the TV settings** for you
- **Perform a factory reset** your TV
- Install recommended **firmware updates**

How Does it Work?

Having a Samsung Tech remotely service your TV is really pretty simple

Call Samsung Contact Centre and ask for remote support.

Open the menu on your TV and go to the Support section.

Select Remote Management and Provide the Pin# to the agent.

The agent will then access your TV. That's it!

e-Manual

Screen Menu > **Support** > **e-Manual**

This TV features a built-in electronic user manual. It is a comprehensive guide for using your Samsung SMART TV.

Self Diagnosis

Screen Menu > **Support** > **Self Diagnosis**

Your TV is capable of diagnosing itself for picture, sound, and signal related issues. The self-diagnosis function consists of the following options:

- Picture Test
- Sound Test
- Signal Information
- Reset

The options may vary ,depending on the models or areas.

Picture Test

Screen Menu > **Support** > **Self Diagnosis** > **Picture Test** Try Now

The Picture Test displays a high definition picture to examine it for flaws or faults.

If the test picture does not appear or there is noise or distortion, the TV may have a problem. Contact Samsung's Call Centre for assistance. If the test picture is displayed properly, there may be a problem with the external device. Please check the connections. If the problem persists, check the signal strength or refer to the external device's user manual.

Sound Test

Screen Menu > **Support** > **Self Diagnosis** > **Sound Test** Try Now

Use the built-in melody to check for sound problems.

If no melody is played by the TV's speakers, make sure **Speaker Select** is set to **TV Speaker** and then try again. If the problem persists, there may be a problem with the TV. Contact Samsung's Call Centre for assistance. If the melody is played, there may be a problem with the external device. Please check the connections. If the problem persists, refer to the external device's user manual.

Motion Control Environment Check

Screen Menu > **Support** > **Self Diagnosis** > **Motion Control Environment Check** Try Now

Test the ambient noise and brightness levels to see if they are suitable for SMART Interaction use.

Signal Information

Show digital broadcasting signal information.

This function may be not available, depending on the models or areas.

Reset

Screen Menu > **Support** > **Self Diagnosis** > **Reset** Try Now

This resets all settings to the factory default settings except for the network settings. Select Reset, enter the PIN code when requested, and then select **Yes**. All settings are then reset. The TV turns off and on again automatically and then displays the **Setup** screen. For more information on resetting the TV, refer to the user manual that came with the TV.

Updating the Software

Screen Menu > **Support** > **Software Update** Try Now

Check your TV's software version and upgrade it if necessary.

⚠ **DO NOT turn off the TV's power until the upgrade is complete. The TV will turn off and on automatically after completing the software upgrade. All video and audio settings return to the default settings after a software upgrade.**

The software can be upgraded in the following ways:

- Update now
- Auto update

The options may vary ,depending on the models or areas.

Update now

Screen Menu > **Support** > **Software Update** > **Update now** Try Now

Visit www.samsung.com from a computer. Download the latest USB software upgrade executable archive. Extract the exe archive to the computer and copy it to a USB device. Insert the USB device into the TV's USB port and run the upgrade.

⚠ **Do not remove the USB device until the upgrade is complete.**

Auto update

Screen Menu > **Support** > **Software Update** > **Auto update** Try Now

The TV will be updated automatically when you're not watching it.

Usage Mode

Screen Menu > **Support** > **Use Mode** Try Now

Select the TV's usage mode(Home Use/Store Demo). If your TV has been unintentionally set to **Store Demo**, you can change the mode with this option. **Store Demo** should be used in retail environments only. With **Store Demo**, certain functions are disabled and the TV automatically resets itself after a certain amount of time.

Support Info

Screen Menu > **Support** > **Contact Samsung** Try Now

Check the information below if your TV is not working properly or you need information on upgrading the software. The section below contains useful information about the product and instruction on obtaining the latest software.

Anti-theft Kensington Lock

A Kensington Lock is a physical device that can be used to protect the TV against theft. Look for the Kensington slot on the back of the TV. The slot has a icon next to it. Wrap the lock around an object that is too heavy to carry and then thread it through the TV's Kensington slot. The lock, however, has to be purchased separately.

The method of using a Kensington Lock may differ for each TV model. Refer to the Kensington Lock manual for more information.

Display Resolution

You can also select one of the standard resolutions listed in the Resolution column. The TV will automatically adjust to the resolution you choose.

IBM

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
640 x 350	31.469	70.086	25.175	+/-
720 x 400	31.469	70.087	28.322	-/+

MAC

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
640 x 480	35.000	66.667	30.240	-/-
832 x 624	49.726	74.551	57.284	-/-
1152 x 870	68.681	75.062	100.000	-/-

VESA DMT

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
640 x 480	31.469	59.940	25.175	-/-
640 x 480	37.861	72.809	31.500	-/-
640 x 480	37.500	75.000	31.500	-/-
800 x 600	37.879	60.317	40.000	+/+
800 x 600	48.077	72.188	50.000	+/+
800 x 600	46.875	75.000	49.500	+/+
1024 x 768	48.363	60.004	65.000	-/-
1024 x 768	56.476	70.069	75.000	-/-
1024 x 768	60.023	75.029	78.750	+/+
1152 x 864	67.500	75.000	108.000	+/+
1280 x 720	45.000	60.000	74.250	+/+
1280 x 800	49.702	59.810	83.500	-/+
1280 x 1024	63.981	60.020	108.000	+/+
1280 x 1024	79.976	75.025	135.000	+/+
1366 x 768	47.712	59.790	85.500	+/+
1440 x 900	55.935	59.887	106.500	-/+
1600 x 900RB	60.000	60.000	108.000	+/+
1680 x 1050	65.290	59.954	146.250	-/+
1920 x 1080	67.500	60.000	148.500	+/+

Subtitle and Media Contents file formats, and Codec

Subtitle

External

Name	File Extension
MPEG-4 Timed text	.ttxt
SAMI	.smi
SubRip	.srt
SubViewer	.sub
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass
Powerdivx	.psb

Internal

Name	Container
Xsub	AVI
SubStation Alpha	MKV
Advanced SubStation Alpha	MKV
SubRip	MKV
MPEG-4 Timed text	MP4

Supported image resolutions

File Extension	Type	Resolution
*.jpg *.jpeg	JPEG	15360x8640
*.png	PNG	4096x4096
*.bmp	BMP	4096x4096
*.mpo	MPO	15360x8640

Supported music file formats

File Extension	Type	Codec	Comments
*.mp3	MPEG	MPEG1 Audio Layer 3	
*.m4a *.mpa *.aac	MPEG4	AAC	
*.flac	FLAC	FLAC	Supports up to 2 channel
*.ogg	OGG	Vorbis	Supports up to 2 channel
*.wma	WMA	WMA	WMA 10 Pro supports up to 5.1 channel. WMA lossless audio is not supported. Supports up to M2 profile(except LBR mode)
*.wav	wav	wav	
*.mid *.midi	midi	midi	type 0, type 1 are supported.
*.ape	ape	ape	

Supported 3D Resolutions

This feature is not available for LED 5300, PDP 5200 series.

These specifications apply to a display ratio of 16:9 only.

HDMI

3D Format: L/R, T/B

Resolution	Frequency (Hz)
1280 x 720p	59.94 / 60
1920 x 1080i	59.94 / 60
1920 x 1080p	23.98 / 24 / 29.97 / 30 / 59.94 / 60

3D Format: Frame Packing

Resolution	Frequency (Hz)
1280 x 720p	59.94 / 60
1920 x 1080i	59.94 / 60
1920 x 1080p	23.98 / 24 / 29.97 / 30

Component

Resolution	Frequency (Hz)
1280 x 720p	59.94 / 60
1920 x 1080i	59.94 / 60
1920 x 1080p	23.98 / 24 / 29.97 / 30 / 59.94 / 60

Digital Channel

Resolution	Frequency (Hz)
1280 x 720p	59.94 / 60
1920 x 1080i	59.94 / 60

Videos / Photos

Refer to the "Subtitle and Media Contents file formats, and Codec".

Computer via HDMI

The optimal resolution for using the computer display is 1920 x 1080. Only LED TVs can convert a 2D computer display into 3D. If the resolution is not set properly, 3D display and full-screen display may not be available.

Video Codec

<table>
<tr><th>File Extension</th><th>Container</th><th>Video Codec</th><th>Resolution</th><th>Frame rate (fps)</th><th>Bit rate (Mbps)</th><th>Audio Codec</th></tr>
<tr><td rowspan="13">*.avi
*.mkv
*.asf
*.wmv
*.mp4
*.3gp
*.vro
*.mpg
*.mpeg
*.ts
*.tp
*.flv
*.vob
*.svi
*.m2ts
*.mts
*.divx</td><td rowspan="13">AVI
MKV
ASF
MP4
3GP
MOV
FLV
VRO
TS
SVAF</td><td>Divx 3.11 / 4 / 5 / 6</td><td rowspan="3">1920x1080</td><td rowspan="11">6~30</td><td rowspan="3">30</td><td rowspan="13">AC3
LPCM
ADPCM(IMA, MS)
AAC
HE-AAC
WMA
DD+
MPEG(MP3)</td></tr>
<tr><td>MPEG4 SP/ASP</td></tr>
<tr><td>H.264 BP/MP/HP</td></tr>
<tr><td>Motion JPEG</td><td>640x480</td><td>8</td></tr>
<tr><td>Microsoft MPEG-4 v3</td><td rowspan="4">1920x1080
(WMV v7,v8, MSMPEG4 v3: 1280x720)</td><td rowspan="4">30</td></tr>
<tr><td>Window Media Video v7,v8,v9</td></tr>
<tr><td>MPEG2</td></tr>
<tr><td>MPEG1</td></tr>
<tr><td>MVC</td><td></td><td>24/25/30</td><td>60</td></tr>
<tr><td>VP6</td><td>640x480</td><td></td><td>4</td></tr>
<tr><td>*.webm</td><td>WebM</td><td>VP8</td><td>1920x1080</td><td>6~30</td><td>20</td><td>Vorbis</td></tr>
<tr><td>*.rmvb</td><td>RMVB</td><td>RV8/9/10 (RV30/40)</td><td>1920x1080</td><td>30</td><td>10</td><td>RealAudio 6</td></tr>
</table>

Other Restrictions

Codecs may not function properly if there is a problem with the content data.

Video content does not play or does not play correctly if there is an error in the content or container.

Sound or video may not work if they have standard bit rates/frame rates above the TV's compatibility ratings.

If the Index Table is wrong, the Seek (Jump) function does not work.

When playing video over a network connection, the video may not play smoothly because of data transmission speeds.

Some USB/digital camera devices may not be compatible with the player.

Video Decoders

- Supports up to H.264, Level 4.1 (does not support FMO/ASO/RS)
- VC1 AP L4 is not supported.
- All video codecs excluding WMV v7, v8, MSMPEG4 v3, MVC, and VP6:

  Below 1280x720: 60 frame max

  Above 1280x720: 30 frame max
- GMC is not supported.
- Supports SVAF top/bottom and left/right only.
- Supports Blu-ray/DVD MVC specs only.

Audio Decoders

- WMA 10 Pro supports up to 5.1 channels. Supports up to M2 profile. (Excluding M0 LBR mode)
- WMA lossless audio is not supported.
- Vorbis is supported for up to 2 channels.
- DD+ is supported for up to 5.1 channels.

3D Active Glasses Precautions

CAUTION

IMPORTANT HEALTH AND SAFETY INFORMATION FOR 3D IMAGES. READ THE FOLLOWING CAUTIONS BEFORE YOU OR YOUR CHILD USE THE 3D FUNCTION.

- Adults should frequently check on children who are using the 3D function. If there are any complaints of tired eyes, headaches, dizziness or nausea, stop the child from viewing the 3D TV and ensure that they rest.
- Do not use the 3D glasses for other purposes such as general wear, sunglasses, protective goggles, etc.
- Some viewers may experience discomfort such as dizziness, nausea and headaches while viewing 3D TV. If you experience any of these symptoms, stop viewing the 3D TV, remove the 3D glasses and rest for awhile.
- Watching 3D pictures for an extended period of time may cause eye strain. If you experience any eye strain, stop viewing the 3D TV, remove the 3D glasses and rest for awhile.
- Do not use the 3D function or 3D glasses while walking or moving around. Using the 3D function or 3D Active Glasses while moving around may result in injury from running into objects, tripping, and/or falling.

SAFETY PRECAUTIONS

The following safety instructions are to ensure your personal safety and prevent property damage. Please read them to ensure the proper use of the product.

- Do not place the product in a location exposed to direct sunlight, heat, fire or water. This may result in a product malfunction or fire.
- Do not apply force to the lenses of the 3D glasses. Do not drop or bend the product. This may result in a product malfunction.
- Use only the specified standard batteries. When replacing the battery, insert the battery so that its polarity (+, -) is correct. Failing to do so may damage the battery or result in fire, personal injury or environmental damage caused by liquid leaking from the battery.
- Keep the used battery out of the reach of children so that they do not accidently swallow the battery. If your child has swallowed the battery, consult your doctor immediately.
- When cleaning the product, do not spray water or cleaner directly onto the surface of the product. Spraying water or cleaner directly onto the glasses may result in fire or electric shock, damage to the product's surface, or cause the indicator labels on the product's surface to come loose.
- Do not use chemicals containing alcohol, solvents, or surfactants, or chemicals such as wax, benzene, thinner,mosquito repellant, lubricant or cleaners. These may cause a disColouration of or cracks in the product surface and cause the indicator labels on the product's surface to come loose.
- Since the product surface and lens are easily scratched, make sure to use a clean soft cloth when cleaning to avoid scratching either the surface or the lens. As the product may become scratched if there are any foreign items on the cloth, make sure to shake off any dust before using it.
- Never disassemble, repair, or modify the 3D glasses yourself. Do not use the glasses when they are out of order or broken.
- Take care that you do not injure your eyes with the edges of the frame of the 3D glasses when wearing them.

WARRANTY

This Samsung product is warranted for the period of the listed period at the table (Refer to the warranty period table by the country) from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should first return the product to the retailer from whom it was purchased. However, Samsung Authorised Service Centres will comply with this warranty during the Warranty Period. To obtain details, please contact your nearest Authorised Service Centre.

PROCEDURE FOR MAKING A WARRANTY CLAIM

To make a claim under the warranty, you must contact the Samsung Centre during the Warranty Period to discuss the problems you are having with the product. If a repair or replacement is required, you will be provided with a Warranty Claim Number and address of an Authorised Service Centre.

If you are provided with a Warranty Claim Number, to obtain a repair or replacement of the product, you must send the product to the Authorised Service Centre advised together with:

- a copy of your completed warranty card or, if you have already provided this to Samsung, your name, address and contact telephone number;
- your original receipt, invoice or sales slip for the purchase of the product as new;
- your Warranty Claim Number.

  Samsung will then repair or replace the product and return it to you using the contact details provided.

WARRANTY CONDITIONS

1. The warranty is only valid if the above procedure for making a warranty claim is followed.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Samsung Authorised Service Centres. No re-imbursement will be made for repairs carried out by service centres or dealers that are not authorised by Samsung and any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any country other than the one for which the product was originally designed and manufactured. This warranty will not cover, and no reimbursement will be made for such adaptation, nor any damage which may result.

5. The warranty does not apply to any product that has been damaged or rendered defective as a result of any of the following excluded reasons, namely:
    - as a result of accident, misuse, or abuse;
    - through the failure to use this product for its normal purposes;
    - by the use of parts not manufactured or sold by Samsung;
    - by modification without the written permission of Samsung;
    - by damage resulting from transit, neglect, power surge or failure;
    - by damage resulting from lightning, water, fire, or acts of God;
    - as a result of normal wear and tear; or
    - differences in broadcasting methods or product standards between countries.
6. This warranty is valid for any person who legally acquired possession of the product during the warranty period.
7. NOTHING IN THESE WARRANTY CONDITIONS SHALL EXCLUDE OR LIMIT SAMSUNG'S LIABILITY FOR DEATH OR PERSONAL INJURY CAUSED BY THE PROVEN NEGLIGENCE OF SAMSUNG, UNLESS SUCH LIMITATION OR EXCLUSION IS PERMITTED BY APPLICABLE LAW.
8. WITH THE EXCEPTION OF SAMSUNG'S LIABILITY WHICH CANNOT BE EXCLUDED OR LIMITED BY LAW, SAMSUNG SHALL NOT BE LIABLE FOR: ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES LOSSES OR EXPENSES; OR LOST PROFITS; OR LOSS OF USE OR LOSS OF DATA; OR DAMAGE TO GOODWILL, REPUTATION OR LOST BUSINESS, ARISING DIRECTLY OR INDIRECTLY, FROM THE PURCHASE, USE OR SALE OF THE PRODUCT, WHETHER OR NOT SAMSUNG WAS ADVISED OR AWARE OF THE POSSIBILITY OF SUCH DAMAGES, LOSSES OR EXPENSES.
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Covered by one or more of the following U.S. patents: 7,295,673; 7,460,668; 7,515,710; 7,519,274

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Trouble Shooting

If the TV appears to have a problem, first review this list of possible problems and solutions. If none of the troubleshooting tips apply, visit www.samsung.com/support or contact Samsung Customer Service.

Screen

If there is a problem with the screen, run **Picture Test** (**Support** > **Self Diagnosis** > **Picture Test**) to diagnose the issue. If the test fails to identify a problem, there may be a problem with an external device or the signal strength.

There is something wrong with the TV.	Try this!
Component Connections / Screen Colour	If you find that the colour on your Samsung television screen is not correct or the black and white colours are off, run **Self Diagnosis** (**Support** > **Self Diagnosis** > **Picture Test**). If the test results are negative, check the following: Are the TV's video input connectors connected to the correct external device video output connectors? Check other connections as well. If the TV is connected to an external device via a component cable, check that the Pb, Pr, and Y jacks are plugged into their proper connectors.
Screen Brightness	If you find that the colours on your Samsung TV are correct but just a little too dark or bright, try adjusting the following settings first. Navigate to **Picture** and adjust **Backlight**/**Cell Light** (applicable models), **Contrast**, **Brightness**, **Sharpness**, **Colour**, **Tint (G/R)** and other picture quality adjustment settings.
Motion Plus / Blur (for LED TV)	If you find that there is a blur or “ghost” shadow to the images on your television screen, you might be able to correct the issue using **Motion Plus** (**Picture** > **Picture Options** > **Motion Plus**).
Unwanted Powering Off	If your Samsung TV appears to turn off by itself, try disabling some of the TV's energy efficiency features. Check if **Sleep Timer**(**System** > **Time** > **Sleep Timer**) has been enabled. **Sleep Timer** automatically turns off the TV to save energy after a specified period of inactivity. If the Sleep Timer has not been enabled, see if **No Signal Power Off**(**System** > **Eco Solution** > **No Signal Power Off**) or **Auto Power Off**(**System** > **Eco Solution** > **Auto Power Off**) has been enabled. If your PC is connected to the TV, check your PC power settings. Make sure the AC power cord is plugged in securely to the wall outlet and the TV. When watching TV from an aerial or cable connection, the TV will turn off after 10~15 minutes if there is no signal.
Problems Powering On	When the TV is turned on, the remote control receiver flashes 5 times before the screen turns on. If you find that you are having problems powering on your Samsung television, there are a number of things to check before calling the service department. If the power cord is connected properly and the remote control is operating normally, the problem might be with the aerial cable connection or the cable/satellite box not being turned on. Check the aerial connection or turn on the cable/satellite box.
Unable to find a Channel	Run **Setup**(**System** > **Setup**) or **Auto Tuning**(**Broadcasting** > **Auto Tuning**).

There is something wrong with the TV.	Try this!
The TV image does not look as good as it did in the store.	Store displays are all tuned to digital, HD (high definition) channels. If you have an Analogue cable/set top box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality. Many HD channels are upscaled from SD (Standard Definition) content. Look for a channel that is broadcasting true HD content. Cable/Satellite Subscribers: Try HD channels from the channel lineup. Air/Cable Aerial Connection: Try HD channels after performing the Auto Tuning operation. Adjust the cable/satellite box's video output resolution to 1080i or 720p. Make sure you are watching the TV at the minimum recommended distance based on the size and definition of the signal.
The picture is distorted.	The compression of video content may cause picture distortions, especially in fast moving pictures such as sports and action movies. A weak or bad quality signal can cause picture distortions. This is not an issue with the TV. Mobile phones used close to the TV (within 1m) may cause noise in Analogue and digital channels.
The colour is wrong or missing.	If you're using a Component connection, make sure that the component cables are connected to the correct jacks. Incorrect or loose connections may cause colour problems or a blank screen.
The colour is poor or the picture is not bright enough.	Navigate to Picture and adjust Picture Mode, Brightness, Sharpness, Colour, and other picture adjustment settings. See if Energy Saving(System > Eco Solution > Energy Saving) has been enabled. Try resetting the picture. (Picture > Reset Picture)
There is a dotted line on the edge of the screen.	If Picture Size is set to Screen Fit, change it to 16:9. Change the cable/satellite box resolution.
The picture is black and white.	If you are using AV composite input, connect the video cable (yellow) to the TV's green component jack.
The colour is wrong or missing.	If you are using a Component connection, make sure that the component cables are connected to the correct jacks. Incorrect or loose connections may cause colour problems or a blank screen.
When changing channels, the picture freezes or is distorted or delayed.	If the TV is connected to a cable box, try to reset the box. (Disconnect and then reconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes.) Set the output resolution of the cable box to 1080i or 720p.

Sound

If you find that there is a problem with the TV's speakers, run **Sound Test**(**Support** > **Self Diagnosis** > **Sound Test**) to diagnose the issue. If the audio is OK, the sound problem may be caused by the source or signal.

There is something wrong with the TV.	Try this!
There is no sound or the sound is too low at maximum volume.	Please check the volume of the device (cable/satellite box, DVD, Blu-ray, etc.) connected to your TV.
The picture is good but there is no sound.	Navigate to **Sound** and set **Speaker Select** to **TV Speaker**. If you are using an external device, check the device's audio output option. (For example, you may need to change your cable box's audio option to HDMI if the box connected to your TV is using an HDMI cable.) If you are using a DVI to HDMI cable, a separate audio cable is required. If your TV has a headphone jack, make sure there is nothing plugged into it. Reboot the connected device by disconnecting and then reconnecting the device's power cable. If you are using an external device, make sure the audio cables are connected to the correct audio input jacks on the TV.
The speakers are making an odd sound.	Make sure that the audio cable is connected to the correct audio output connector on the external device. For aerial or cable connections, check the signal information. A low signal level may cause sound distortions. Run **Self Diagnosis** (**Support** > **Self Diagnosis** > **Sound Test**).

3D TV

There is something wrong with the TV.	Try this!
The 3D Active Glasses are not working correctly.	Make sure the glasses are turned on. The 3D Active Glasses may not work properly if there is another 3D product or electronic device turned on near the glasses or TV. If there is a problem, keep other electronic devices as far away as possible from the 3D Active Glasses.
The 3D images don't look quite right.	The ideal viewing distance is three times or more the height of the screen. We also recommend sitting with your eyes level with the screen.
The batteries in the 3D glasses don't last.	Turn off the 3D glasses when you are not using them. If you leave the 3D glasses on, the battery lifespan is shortened.

Aerial (Air / Cable / Satellite) Connection

There is something wrong with the TV.	Try this!
The TV is not receiving all channels.	Make sure the coaxial cable is connected securely. Run Auto Tuning (Broadcasting > Auto Tuning) to add all available channels to the channel list. Verify that the aerial is positioned correctly.
There are no Subtitle on digital channels.	Navigate to Subtitle (Broadcasting > Subtitle) and change the Subtitle Mode setting. Some channels may not have Subtitle data.
The picture is distorted.	The compression of video content may cause picture distortions. This is especially true with fast moving pictures such as sports and action movies. A weak signal can cause picture distortions. This is not a problem with the TV.

Computer Connection

There is something wrong with the TV.	Try this!
The "Mode Not Supported" message appears.	Set your PC's output resolution so it matches a resolution supported by the TV.
The video is OK but there is no audio.	If you are using an HDMI connection, check the audio output setting on your PC. If you are using a DVI to HDMI cable, a separate audio cable is required.

Networking

There is something wrong with the TV.	Try this!
The wireless network connection failed.	Make sure the TV is connected to a wireless IP router.
The Software Update over the network has failed.	Check the network connection status. If the TV is not connected to a network, connect to a network. The upgrade will not proceed if you already have the latest software version.

Miscellaneous

There is something wrong with the TV.	Try this!
The TV is hot.	Watching TV for an extended period of time causes the panel to generate heat. The heat from the panel is dissipated through internal vents running along the top part of the TV. The bottom portion, however, may feel hot to the touch after extended use. Children watching TV need constant adult supervision to prevent them from touching the TV. This heat, however, is not a defect and does not affect the TV's functionality.
The picture won't display in full screen.	HD channels will have black bars on either side of the screen when displaying upscaled SD (4:3) content. Black bars will appear at the top and bottom of the screen when you watch movies that have aspect ratios different from your TV. Adjust the picture size options on your external device or set the TV to full screen.
The "Mode Not Supported" message appears.	Check the supported resolutions of the TV and adjust the external device's output resolution accordingly.
The Subtitle item in the TV menu is grayed out.	You cannot select the Subtitle menu if you have selected a source connected to the TV via HDMI or Component. The external device's Subtitle function must also be activated.
The TV smells of plastic.	This smell is normal and will dissipate over time.
The TV's Signal Information option is not activated in the Self Diagnosis.	Verify that the current channel is a digital channel. Signal Information is only available with digital channels.
The TV is tilted to the side.	Remove the base stand from the TV and reassemble it.
Broadcasting is grayed out.	The Broadcasting menu is only available when Source is set to TV. The Broadcasting menu cannot be accessed while watching TV using a cable box or satellite receiver.
The settings are lost after 30 minutes or every time the TV is turned off.	If Use Mode is set to Store Demo, the TV's audio and video settings are automatically reset every 30 minutes. Change Use Mode (Support > Use Mode) to Home Use.
There is an intermittent loss of audio or video.	Check the cable connections and reconnect them. Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If you are mounting the TV to a wall, we recommend using cables with 90-degree connectors.

There is something wrong with the TV.	Try this!
There are small particles on the TV's bezel.	This is part of the product's design and is not a defect.
The PIP menu is not available.	PIP functionality is only available when you are using an HDMI or Component source.
A POP (TV's internal banner ad) appears on the screen.	Change Use Mode (Support > Use Mode) to Home Use.
The TV is making a popping noise.	The expansion and contraction of the TV's outer casing may cause a popping noise. This does not indicate a product malfunction. The TV is safe to use.
The TV is making a humming noise.	Your TV utilizes high-speed switching circuits and high levels of electrical current, and depending on the brightness level being used may seem slightly noisier than a conventional TV. Your TV has undergone strict quality control procedures that meet our demanding performance and reliability requirements. Some noise coming from the TV is considered normal and is not an acceptable cause for an exchange or refund.
Image Retention (Burn In) Issue	This issue affects PDP TVs only. Watching TV for an extended period of time or using the 4:3 screen ratio only may result in burn-ins. PDP TVs are equipped with Pixel Shift screen burn reduction technology. Pixel Shift technology reduces screen burn-ins in PDP TVs. It does this by moving the picture slightly vertically or horizontally. Use Screen Burn Protection (System > Screen Burn Protection) to prevent screen burn-ins.

Anynet+ (HDMI-CEC)

There is something wrong with the TV.	Try this!
Anynet+ does not work.	Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. Only one external device may be connected to Receiver. Check if the power cord of the Anynet+ device is properly connected. Check the cable connections of the Anynet+ device. Navigate to the System menu and verify that Anynet+ (HDMI-CEC) is set to On. Check whether the TV remote control is in TV mode. Check whether the remote control is Anynet+ compatible. Anynet+ may not function under certain circumstances. (Searching channels, operating Smart Hub or Setup, etc.) If you have disconnected and then reconnected the HDMI cable, scan for devices again or turn your TV off and on.
I want to start Anynet+.	Check if the Anynet+ device is properly connected to the TV and then navigate to the System menu to see if Anynet+ (HDMI-CEC) is set to On. After checking, select the Virtual Remote panel's or the regular remote's TOOLS buttonn to display the list. Select Anynet+ (HDMI-CEC) from the list..
I want to exit Anynet+.	Select View TV from the Anynet+ menu. Select a non-Anynet+ device from Source.
The message "Connecting to Anynet+ device..." or "Disconnecting from Anynet+ device" appears on the screen.	You cannot use the remote control when you are configuring Anynet+ or switching to a viewing mode. Use the remote control after the TV has completed the Anynet+ configuration or has switched to a viewing mode.
The Anynet+ device won't play.	You cannot use the play function when Setup is progress.
The connected device is not displayed.	Check whether the device supports Anynet+. Check whether the HDMI cable is properly connected. Navigate to the System menu and verify that Anynet+ (HDMI-CEC) is set to On. Scan for Anynet+ devices again. Anynet+ devices must be connected to the TV using an HDMI cable. Make sure the device is connected to your TV with an HDMI cable. Some HDMI cables may not support Anynet+. If the connection is terminated because there has been a power failure or the HDMI cable has been disconnected, please scan for the device again.
The TV audio is not being played through the receiver.	Connect an optical cable to the TV and the receiver. ARC enables digital sound to be output via the HDMI (ARC) port. However, ARC is only available when the TV is connected to an audio receiver that supports ARC.

Photos, Videos & Music

There is something wrong with the TV.	Try this!
Some files can't be played back.	This problem may occur with high-bitrate files. Most files can be played back, but you might experience problems with high-bitrate files.

Apps

There is something wrong with the TV.	Try this!
Some application content only appears in English. How can I change the language?	The application content language may be different from the user interface language. The ability to change the language depends on the service provider.
Some application services do not work.	Check with the service provider. Refer to the help section on the application service provider's website.
When a network error occurs, I can only use the settings menu.	If a network error occurs, the options that require an Internet connection will become unavailable.

Web Browser

1. Select **Web Browser**. The browsing screen may differ from the one on your computer.
2. The web browser is not compatible with Java applications.
3. You cannot download files. If you attempt to download a file, you will receive an error message instead.
4. The web browser may not be able to access certain websites.
5. Playing Flash videos may be restricted.
6. E-commerce for online purchases is not supported.
7. With websites that have scrollable windows, scrolling through such a window can result in corrupted characters.
8. ActiveX is not supported.
9. Certain options are not accessible in Link Browsing mode. (Switch to Pointer Browsing to activate this.)
10. Only a limited number of fonts are supported. Certain symbols and characters may not be displayed properly.
11. The response to remote commands and the resulting on-screen display may be delayed while a webpage is loading.
12. Loading a webpage may be delayed or suspended completely with certain operating systems.
13. The copy and paste operations are not supported.
14. When composing an email or a simple message, certain functions such as the font size and colour selection may not be available.
15. There is a limit to the number of bookmarks and the size of the log file that can be saved.
16. The number of windows that can be opened concurrently varies depending on the search conditions and the TV model.
17. The web browsing speed will vary depending on the network environment.

18. Playing embedded video automatically disables PIP. Video playback may not commence after PIP is disabled. In this case, you will have to reload the page.
19. The web browser supports .mp3 audio files only.
20. The web browser supports a specific file format for importing and exporting bookmarks. (Compatible Format: Netscape-bookmarkfile- 1)
21. The folder tree information is not included when importing and exporting bookmarks.
22. Exporting bookmarks to a USB device connected to the TV saves the bookmarks under a folder named "Samsung SmartTV Bookmark".
23. If **Clock**(**System** > **Time** > **Clock Set**) has not been enabled, the browsing history will not be saved.
24. The browsing history is saved in the order of latest to oldest, with the oldest entries being overwritten first.
25. Depending on the types of video/audio codecs supported, it might not be possible to play back certain video and audio files during Flash playback.
26. A sudden change in the picture brightness inside a video window may affect the brightness of the screen. This problem applies to PDP TVs only.
27. Video sources from PC-optimized streaming service providers may not play properly on our proprietary web browser.
28. Using the on-screen QWERTY keyboard automatically disables PIP. (Except when entering a URL.)